PHILIPS

29PT825B

MODEL

SERVICE MANUAL

Service
Service
Service

FL4.26
AA

ServiceManual

Service Manual Chassis FL4.26 AA

This Service Manual contains modified instructions and prints for the FL4.26. For all remaining information the Service Manual FL2.24/FL2.26/FL4.27AA should be consulted.

FL2.24/FL2.26/FL4.27 GB	4822 727 20266
FL2.24/FL2.26/FL4.27 NL	4822 727 20267
FL2.24/FL2.26/FL4.27 D	4822 727 20268
FL2.24/FL2.26/FL4.27 F	4822 727 20269
FL2.24/FL2.26/FL4.27 IT	4822 727 20271
FL2.24/FL2.26/FL4.27 ES	4822 727 20272

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PCS 74 436 GB

6. Electrical diagrams and PWB-layouts

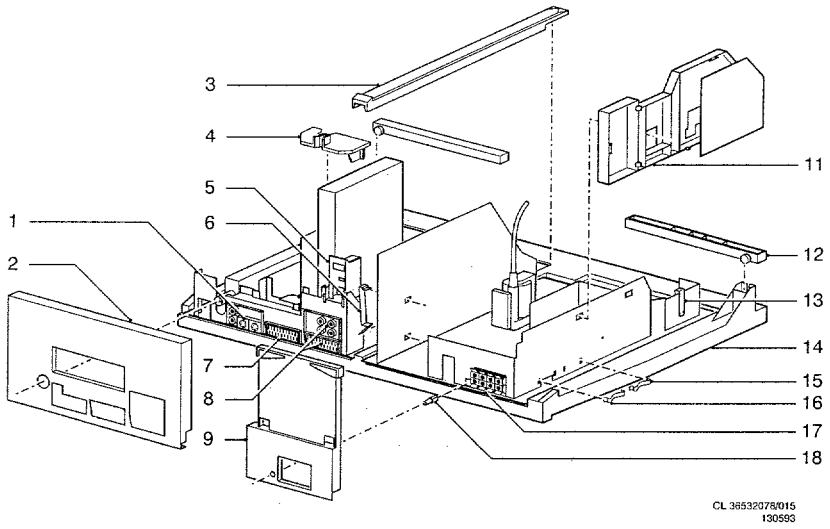
Large signal panel
The modifications for the FL4.26 on the large signal panel with respect to the FL4.27 are:
- 2405 becomes 47nF 4822 122 32542
- 3404 becomes 1k8 4822 051 10182

Small signal panel
The modifications for the FL4.26 on the small signal panel with respect to the FL4.27 are:
- 1255 add Euro AV3 Interface 4822 212 31257
- 2111 deleted
- 3130 add 100Ω 4822 051 10101
- 4112 deleted
- 4115 deleted
- 9260, 9270, 9271, 9272 and 9274 deleted
- 9263, 9265, 9268, 9269, 9655, 9716 and 9717 added

Euro AV3 connector panel
- add 4822 212 31256

IR LED panel
The modifications for the FL4.26 on the IR LED panel with respect to the FL4.27 are:
- 2100 deleted
- 2131 deleted

Mains filter panel
The modifications for the FL4.26 on the mains filter panel with respect to the FL4.27 are:
- 3208 add 4822 116 40253
- Mains filter panel FL4.26 4822 212 31679



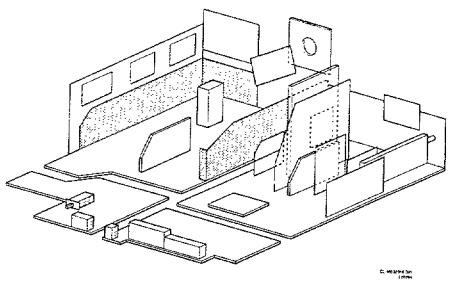
Mechanical FL2/4.XX

1	4822 267 41005	Cinch/2 x SVHS connector FL2
1	4822 267 20409	Cinch/2 x SVHS connector FL4
2	4822 466 93211	SSP cover FL2
2	4822 466 93231	SSP cover FL4
2	4822 432 93309	SSP cover FL4.26
3	4822 417 50287	Bracket
4	4822 404 31196	Bracket for second tuner PIP
5	4822 256 91807	Holder for splitter
6	4822 492 70789	Spring
7	4822 267 51058	Euroconnector
8	4822 267 20427	Euro/4 x cinch connector
8	4822 267 20411	Euro/2 x SVHS connector FL2
8	4822 267 20457	Euro/2 x SVHS connector FL4
9	4822 432 92839	LSP cover FL2.24 CI, Ex
9	4822 432 92695	LSP cover FL2.26 CI
9	4822 432 92991	LSP cover FL4
11	4822 464 70616	Bracket for mains filter FL2.24
11	4822 464 70638	Bracket for mains filter FL2.26/FL4
12	4822 462 42016	Service stand
13	4822 492 62076	Spring
14	4822 464 70615	Frame for chassis FL2
14	4822 464 70639	Frame for chassis FL4
15	4822 492 70143	Spring
16	4822 492 70788	Spring
17	4822 290 60812	Connector for LS
18	4822 410 25036	Mute knob
	4822 404 31344	Bracket 3th scart panel

Colour television

Chassis

Service
Service
Service



FL2.24
FL2.26
FL4.27

AA

ServiceManual

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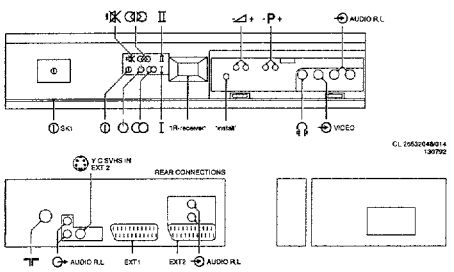
1. Technical data

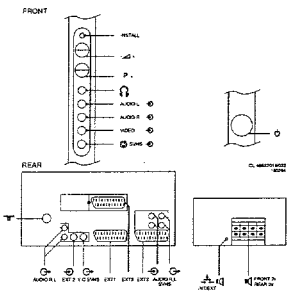
Mains voltage	: 220 - 240 V (± 10%)
	: 50 Hz - 60 Hz (± 5%)
Aerial input impedance	: 75 Ω - koaxial
Minimum aerial voltage	: 30 µV (VHF), 40 µV (UHF)
Maximum aerial voltage VHF/S/UHF	: 180 mV
Programmes	: 0 - 99
VCR programmes	: 0, 50 - 99

2. Connection facilities and Chassis overview

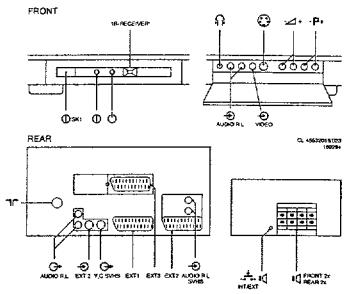
FL1



FL2

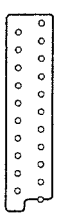


FL4



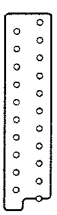
Specification of the connectors

EXT1 (AUX): RGB+CVBS



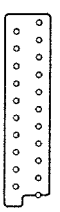
1 -Audio ⊖ R(0,5VRMS ≤ 1kΩ)
2 -Audio ⊕ R(0,2-2VRMS ≥ 10kΩ)
3 -Audio ⊖ L(0,5VRMS ≤ 1kΩ)
4 -Audio ⊥
5 -Blue ⊥
6 -Audio ⊕ L(0,2-2VRMS ≥ 10kΩ)
7 -Blue (0,7Vpp/75Ω)
8 -CVBS-status ⊕ 0-2V: INT
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3
9 -Green ⊥
10 --
11 -Green (0,7Vpp/75Ω)
12 --
13 -Red ⊥
14 -RGB-status
15 -Red (0,7Vpp/75Ω)
16 -RGB-status (0-0,4V: INT)
(1-3V: EXT/75Ω)
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ⊖ (1Vpp/75Ω)
20 -CVBS ⊕ (1Vpp/75Ω)
21 -Earthscreen

EXT2 (VCR): Y/C+CVBS



1 -Audio ⊖ R(0,5VRMS ≤ 1kΩ)
2 -Audio ⊕ R(0,2-2VRMS ≥ 10kΩ)
3 -Audio ⊖ L(0,5VRMS ≤ 1kΩ)
4 -Audio ⊥
5 --
6 -Audio ⊕ L(0,2-2VRMS ≥ 10kΩ)
7 --
8 -CVBS-status ⊕ 0-2V: int
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3
⊕ 4,5: EXT 16:9
9 --
10 --
11 --
12 --
13 -CHROMA ⊥
14 --
15 -CHROMA ⊕ (1Vpp/75Ω)
16 --
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ⊖ (1Vpp/75Ω)
20 -CVBS/Y ⊕ (1Vpp/75Ω)
21 -Earthscreen

EXT3: CVBS



1 --
2 -Audio ⊕ R(0,2-2VRMS ≥ 10k
3 --
4 -Audio ⊥
5 --
6 -Audio ⊕ L(0,2-2VRMS ≥ 10k
7 --
8 --
9 --
10 --
11 --
12 --
13 --
14 --
15 --
16 --
17 --
18 -CVBS ⊥
19 --
20 -CVBS ⊕ (1Vpp/75Ω)
21 -Earthscreen

EXT2 (SVHS) (rear)

SVHS

1 - ⊥
2 - ⊥
3 - Y ⊕ (1Vpp; 75Ω)
4 - C ⊕ (0,3Vpp; 75Ω)

◎ CINCH Audio ⊕ L(0,5VRMS; ≥ 10kΩ)
◎ CINCH Audio ⊕ R(0,5VRMS; ≥ 10kΩ)

EXT3 (front)

◎ CINCH Video ⊕ 300mVpp/75Ω
◎ CINCH Audio ⊕ L(0,5VRMS; ≥ 10kΩ)
◎ CINCH Audio ⊕ R(0,5VRMS; ≥ 10kΩ)

32-2000Ω ≥ 10mW

Audio out (rear)

◎ CINCH Audio ⊖ L(0,5VRMS; ≤ 1kΩ)
◎ CINCH Audio ⊖ R(0,5VRMS; ≤ 1kΩ)

Erratum

GB

In this reprinted service manual the following diagrams have been replaced:

Diagram		Page
Block diagram		4
Source Select	(Diagram C)	7
Synchronisation FLx.26/.27	(Diagram B)	8
Video processing	(Diagram D)	9
Synchronisation FLx.24	(Diagram B)	10
Sound Processing	(Diagram F)	11
Power supply FLx.26/.27	(Diagram A)	12
SCAVEM	(Diagram Z)	18
PiP	(Diagram J)	21
LFR box	(Diagram M)	22

The following Service Informations are included:

FL 94.03
FL 94.05

Corrections to Chapter 7

Paragraph 3.2 and 3.4

Actual	Must be
(fig. 7.9)	(fig. 7.4)
7.64µs	6.4µs
Figure 7.4	
744µs ± 175ns	6.4µs ± 175ns

Corrections to Chapter 8

Paragraph 5

In some versions it is not possible to re-route the signal path after removing the PiP module because of the use of different connectors.

Paragraph 8.4.1 and 8.4.2

Error message 99 (software protection) is not indicated by the LED's any more.
In case of hardware protection the set switches to stand-by and back on again, once in every few seconds.
Just before switching to stand-by, in case of protection, both red and green LED's light up.

Erratum

(D)

In diese Nachdruck der Service Manual sind die folgende Schaltbilder geändert worden.

Schaltbild		Seite
Blockschaltbild		4
Quellenwahl	(Schaltbild C)	7
Synchronisierung FLx.26/.27	(Schaltbild B)	8
Video Verarbeitung	(Schaltbild D)	9
Synchronisierung FLx.24	(Schaltbild B)	10
Ton Verarbeitung	(Schaltbild F)	11
Stromversorgung FLx.26/.27	(Schaltbild A)	12
SCAVEM	(Schaltbild Z)	18
Bild im Bild	(Schaltbild J)	21
LFR box	(Schaltbild M)	22

Die folgenden Service Informationen sind Beigeliefert:

FL 94.03
FL 94.05

Korrekturen zur Kapitel 7

Paragraph 3.2 und 3.4

Jetzt	Muß sein
(Abb. 7.9)	(Abb. 7.4)
7.64µs	6.4µs
Abbildung 7.4	
744µs ± 175ns	6.4µs ± 175ns

Korrekturen zur Kapitel 8

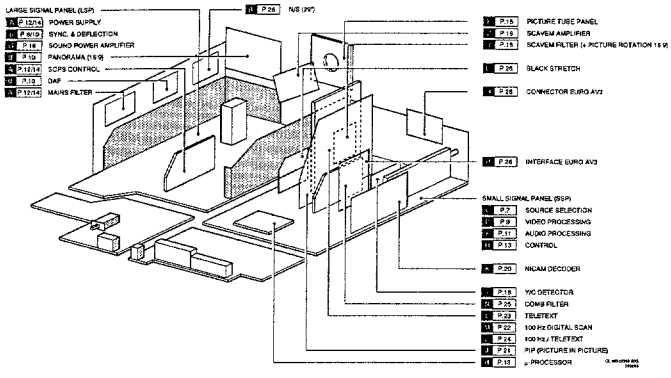
Paragraph 5

In manche Versionen ist es nicht möglich um das Signal durch zu fuhren, wenn das Bild im Bild Modul entfernt ist, weil unterschiedliche Stecker gebraucht worden sind.

Paragraph 8.4.1 und 8.4.2

Fehlermeldung 99 (Software-Schutz) wird nicht mehr angezeigt von der LED's.
Wenn die Hardware-Schutz aktiv ist, schaltet das Gerät zu Stand-by und wieder ein, mit ein Frequenz von einmal in einige Sekunden.
Kurz bevor das Gerät zu Stand-by geschaltet wird, leuchten beide LED's gleichzeitig auf.

Chassis overview



3. Warnings and Notes

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ⚠.

2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).

3. **ESD**

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.

5. Be careful when taking measurements in the high-voltage section and on the picture tube.

6. Never replace modules or other components while the unit is switched on.

7. It is recommended that safety goggles are worn when replacing the picture tube.

8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

9. After repair the wiring should be fastened once more in the cable clamps for this purpose.

10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements. **The heat sink for the sound output amplifier is connected to the -16/-11 volts.**

11. On this unit the 140 volt supply voltage is not supplied via an interconnection on the deflection yoke to the line output transformer. When the deflection cable is detached, the +140 volt supply remains loaded. In order to unload the +140 volts, coil 5511 should be removed.

12. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

Notes

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (⏚), or hot earth (⊥) as this is called.

2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode** (see chapter 8) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.

3. Where necessary, the oscillograms and direct voltages are measured with (⌐|⌐) and without aerial signal (⋊) Voltages in the power supply section are measured both for normal operation (⏻) and in standby (⏼). These values are indicated by means of the appropriate symbols.

4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

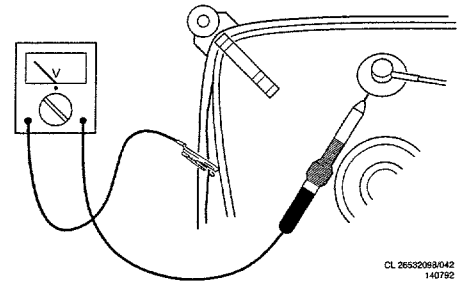


Fig. 3.1

4. Mechanical instructions

It is extremely important that following disassembly all cables are replaced in their original positions in order that safety and sound and picture quality may be guaranteed.

1. Model overview (fig. 1)

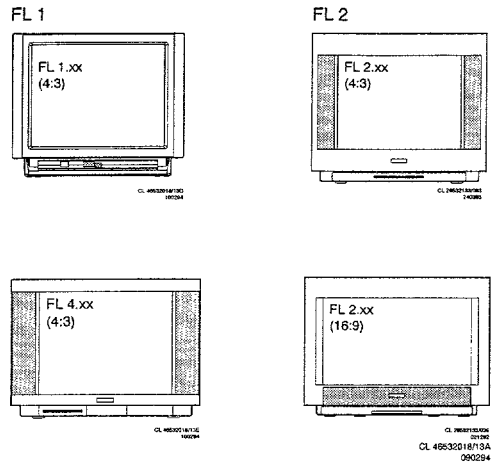


Fig. 4.1

2. Removing the rear panel (fig. 2 + 3)

Before the rear panel is removed the connection to the subwoofer should first be disconnected:
FL1: Open the flap in the rear panel. Disconnect the subwoofer cable. (connector L36)
FL2: Remove the three screws A with which the grille is fixed. Tap the grille downwards as indicated by arrow 1, so that the grille becomes loose. Remove the grille from the rear panel by pulling it in the direction indicated by arrow 2.
Disconnect the cable from the subwoofer as indicated by arrow 3. Remove screws B and C, and also screws D if present or lugs E for FL4.
Remove the rear panel from the set.

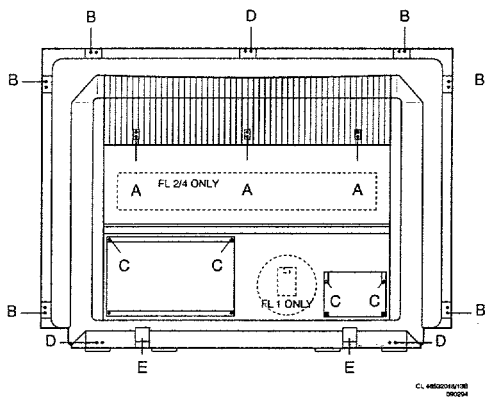


Fig. 4.2

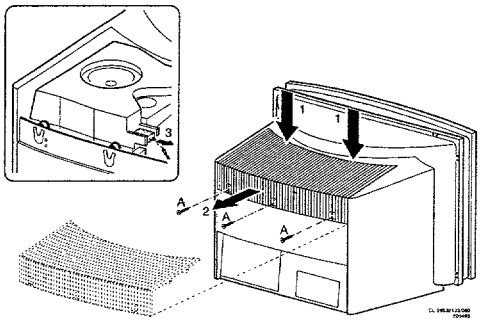


Fig. 4.3

3. Service positions FL1

FL1 can be placed in two service positions. (Fig. 4)
Remove the rear panel. Remove the screw behind the flap on the front side of the set.

Service position 1:

If present, press down the lugs with which the chassis is secured and pull both panels simultaneously to the rear, removing any hindering cables from the cable ties if necessary. Place the panels vertically behind the set as illustrated in figure 4a.

Service position 2:

Disconnect connectors L01, L02 and L03 that connect the small (SSP) and large signal panel (LSP) together. Pull the panel concerned backwards out of the set. Using extension cable set 4822 320 20209 (fig.5) reconnect both panels together. Place the panel concerned behind the set as illustrated in figure 4b.

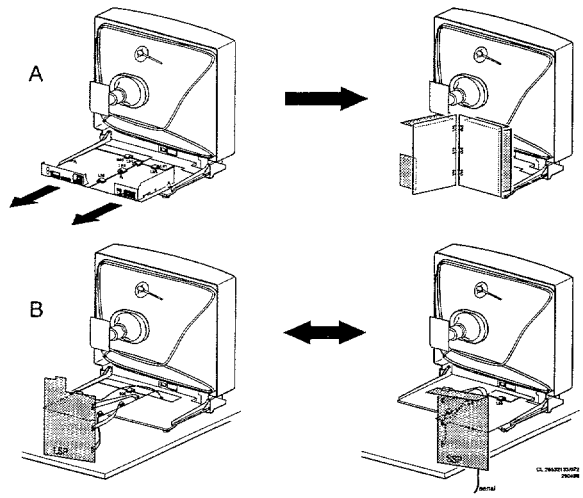


Fig. 4.4

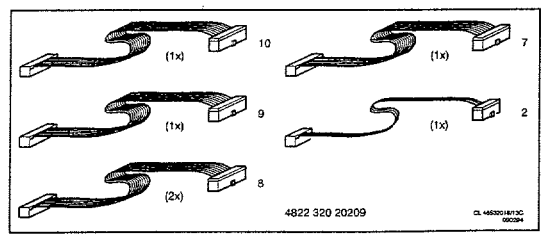


Fig. 4.5

4. Service positions FL2 (fig. 6)

FL2 can be placed in two service positions. (fig.6)
Remove the rear panel.

Service position 1:

Disconnect connectors E47 and E48. These connectors are located on the side of the set and connect the chassis with the audio, video and headphone connections (FRONT).
Lift the chassis frame at the rear and remove it from the cabinet, removing any hindering cables from the cable ties if necessary. Place the frame one position to the rear, taking care to ensure that the chassis frame lugs are located into the correct recesses.

Service position 2:

Place the chassis in service position 1.
Click the infra-red receiver (IR) out of the retainer located under the picture tube.
Remove the cables to the panel with buttons for

local operation from their ties and then click the operating panel out of its holder.
Disconnect the cable to the degaussing coil on the picture tube from the mains filter panel.
Remove the cables from and to the mains filter from their cable ties. Click the two service legs loose and place them vertically in the holes as indicated in the diagram. Tilt the entire chassis frame and place the entire unit on both service legs so that the solder side is accessible.

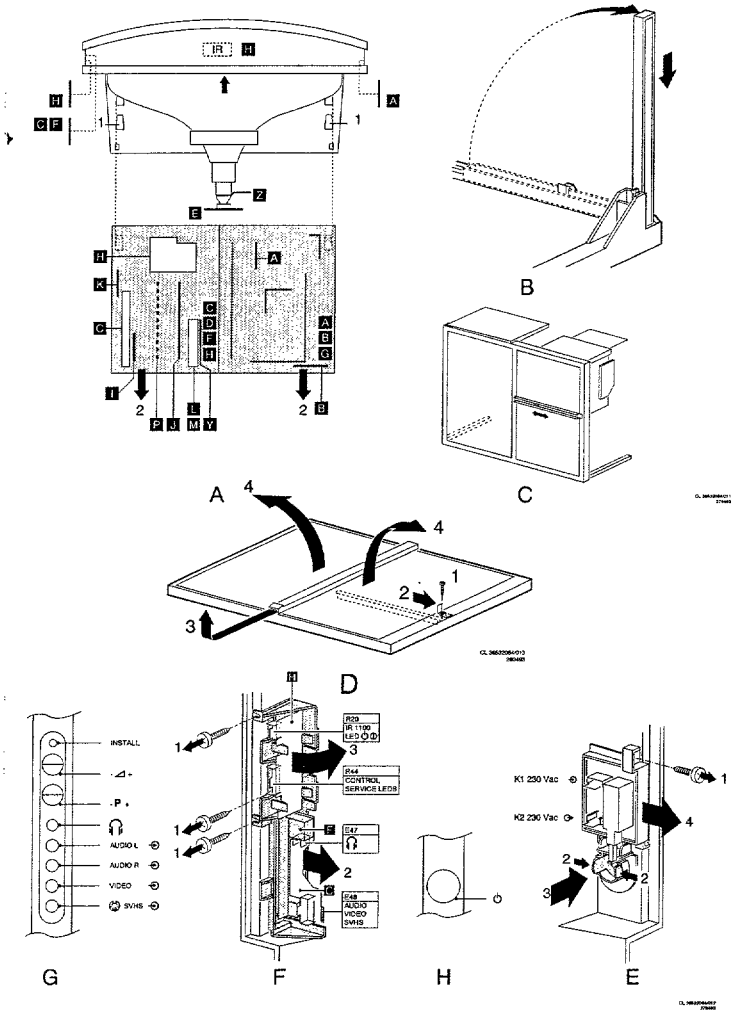


Fig. 4.6

5. Service position FL4 (fig. 7)

An FL4 model can be put into service position 1 in the same manner as an FL2 model.
Service position 2 is accomplished by tilting the whole frame once the cabling has been disconnected (the cable to the front connectors (E47, E48) may be disconnected). A stud on the frame and a hook on the case ensure a stable service position.

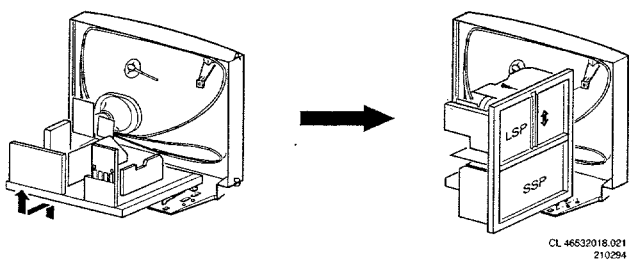


Fig. 4.7

6. Removing the mask from FL2 (fig. 8)

Remove the rear panel. Remove the chassis frame with the chassis from the cabinet.
Remove screws E as indicated in the diagram. Loosen the snap connection under the picture tube. Remove the masker in the manner illustrated in the diagram.

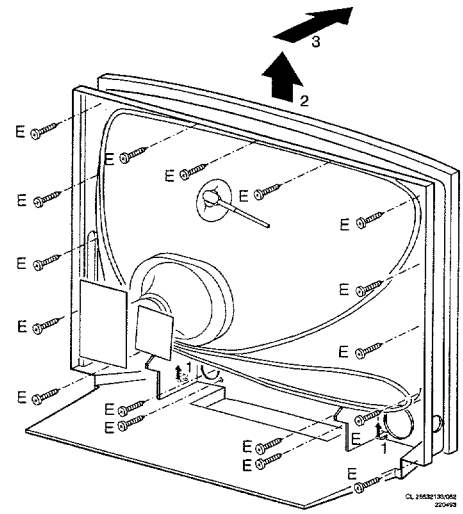


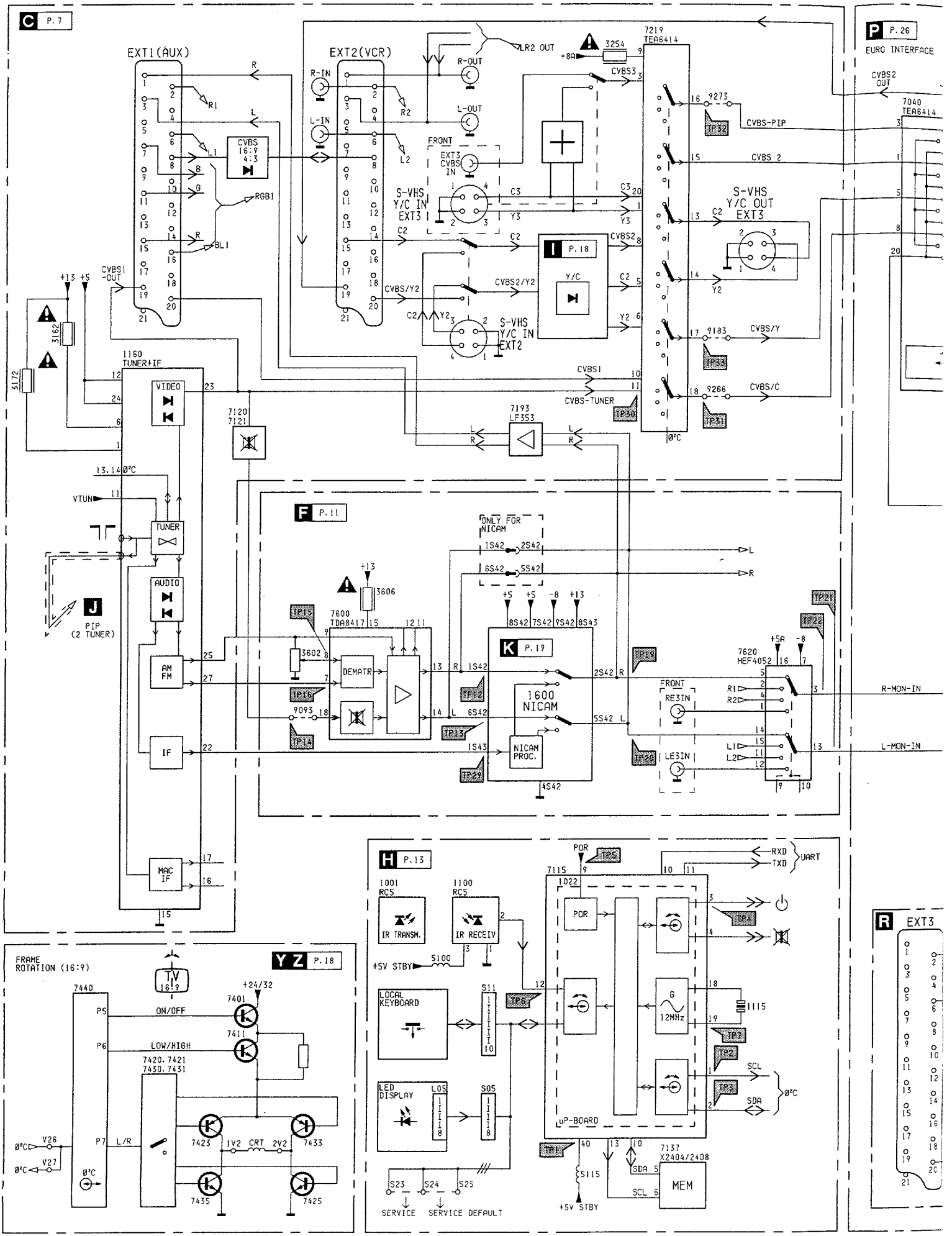
Fig. 4.8

7. Replacing the picture tube.

Remove the rear panel.
Discharge the picture tube in the manner described in chapter 3. Remove the chassis, or the chassis with the chassis frame from the cabinet. Disconnect all cabling to the picture tube. Tilt the set so that the front of the picture tube is pointing downwards, taking care that the picture tube comes to rest on a soft and clean surface. Loosen the four bolt on the picture tube corners and drop the cabinet gently down onto the work surface. The picture tube can now be removed from the cabinet.

In FL2 special nylon picture tube tubular rivets have been applied. In order to guarantee optimum strength these should not be re-used. Take care to fit correctly when replacing. Tighten the picture tube screws one-by-one until a torque of approximately 1kgm (10Nm) is achieved. The picture tube tubular rivets are obtainable under code numbers:
For 28" picture tubes and smaller: 4822 532 12243 (≤ 28")
For 29" picture tubes and larger: 4822 404 31294 (≥ 29")
Four tubular rivets are required per picture tube.

Blockdiagram / Blockschaltbild /



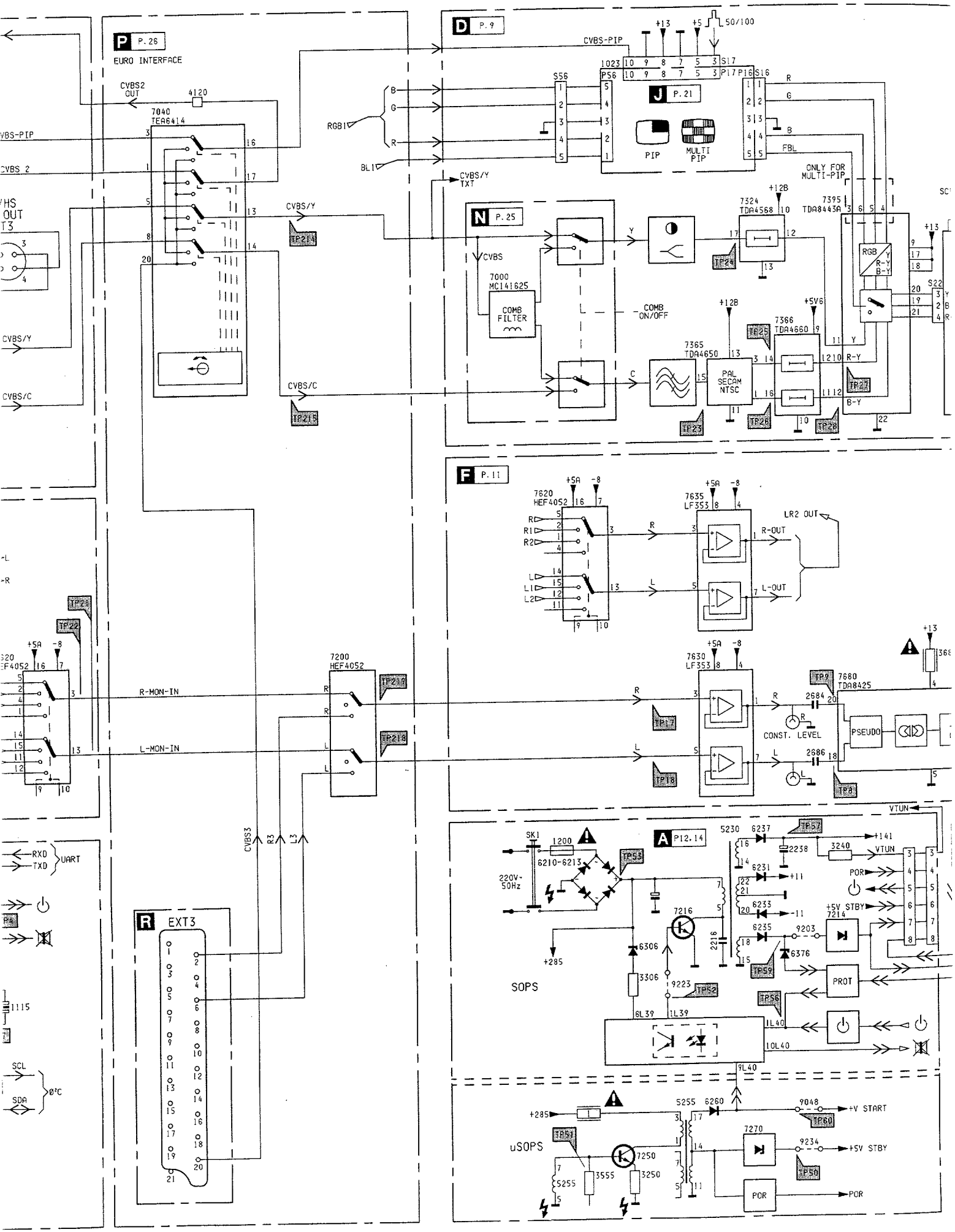
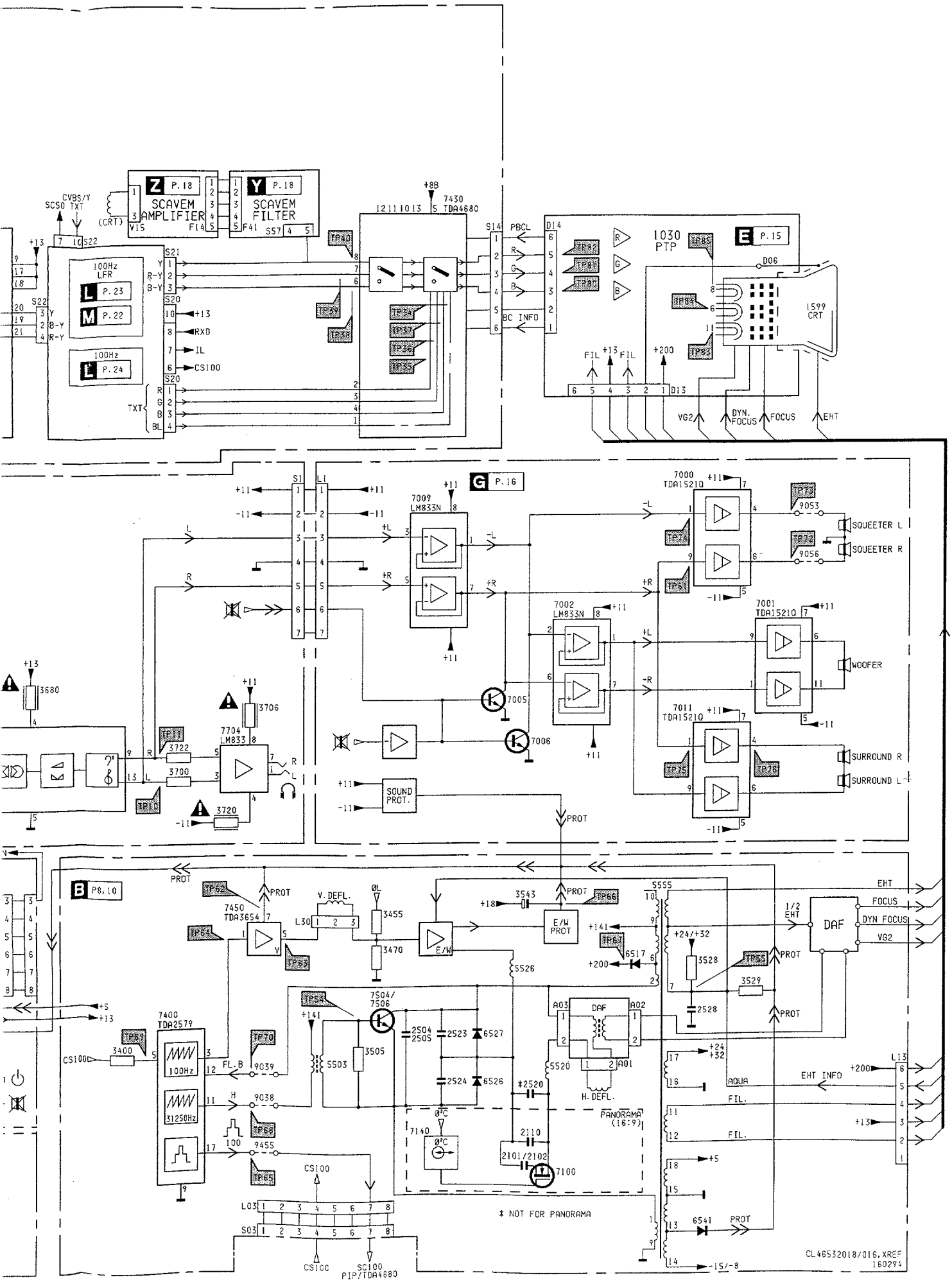
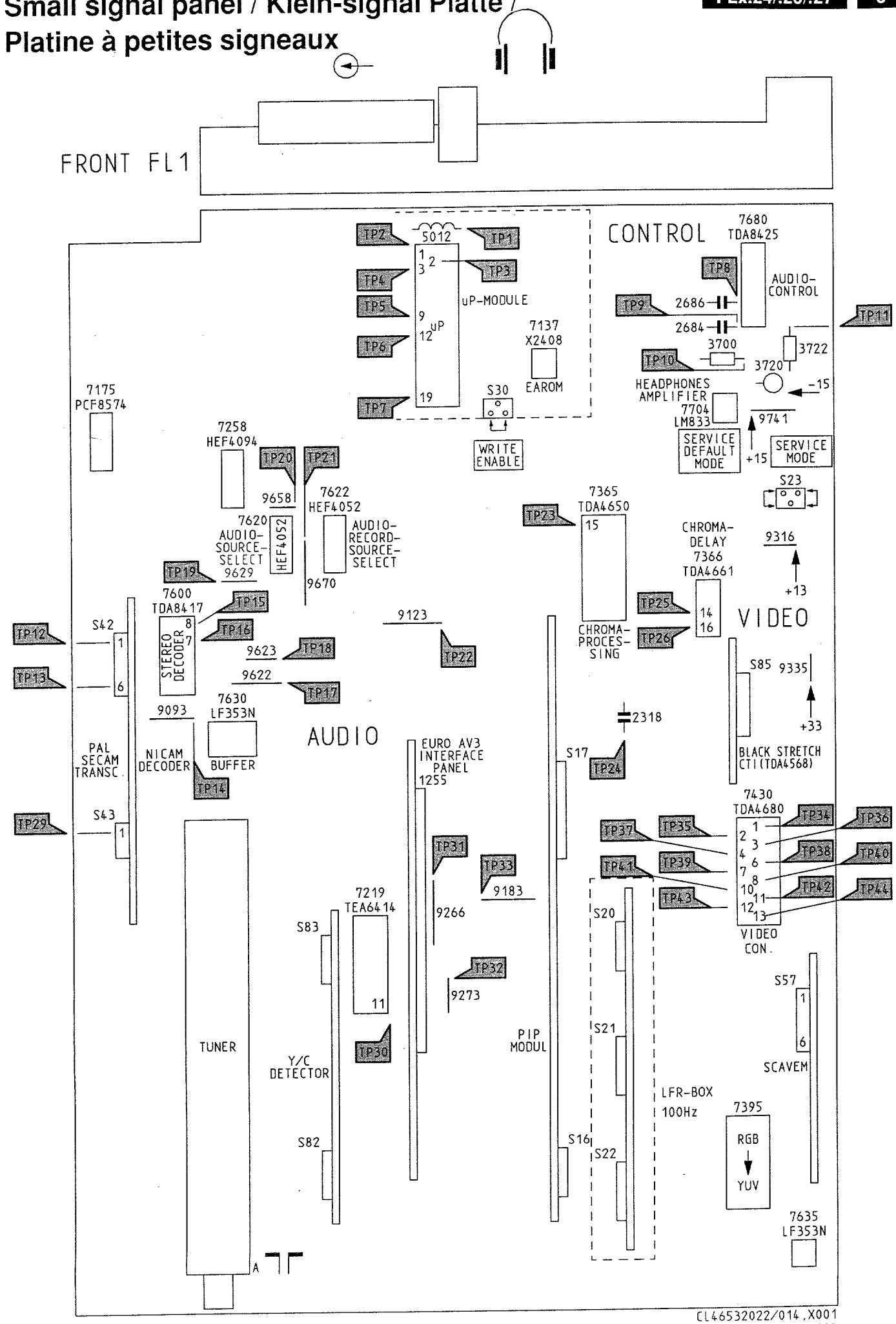

P P. 26
EURO INTERFACE
CVBS2 OUT
4120
7040 TEA6414
CVBS-PIP
CVBS 2
CVBS/Y
CVBS/C
D P. 9
CVBS-PIP
+13
+5
50/100
S56
S17
P56
P17
P16
S16
J P. 21
PIP
MULTI PIP
RGB
BLI
CVBS/Y TXT
ONLY FOR MULTI-PIP
N P. 25
CVBS
7000 MCI41625
COMB FILTER
COMB ON/OFF
7324 TDA4568
7395 TDA8443A
RGB
R-Y
B-Y
7365 TDA4650
PAL SECAM NTSC
7366 TDA4660
+12B
+5V6
F P. 11
7620 HEF4052
7635 LF353
LR2 OUT
R-OUT
L-OUT
7200 HEF4052
R-MON-IN
L-MON-IN
7630 LF353
7680 TDA8425
CONST. LEVEL
PSEUDO
A P12.14
SK1
1200
6210-6213
220V-50Hz
+285
SOPS
7216
7214
+141
VTUN
POR
+5V STBY
PROT
uSOPS
7250
7270
+V START
+5V STBY
POR
R EXT3
CVBS3
R3
L3
RXD
TXD
UART
SCL
SDA
0°C

Diagramme schématique

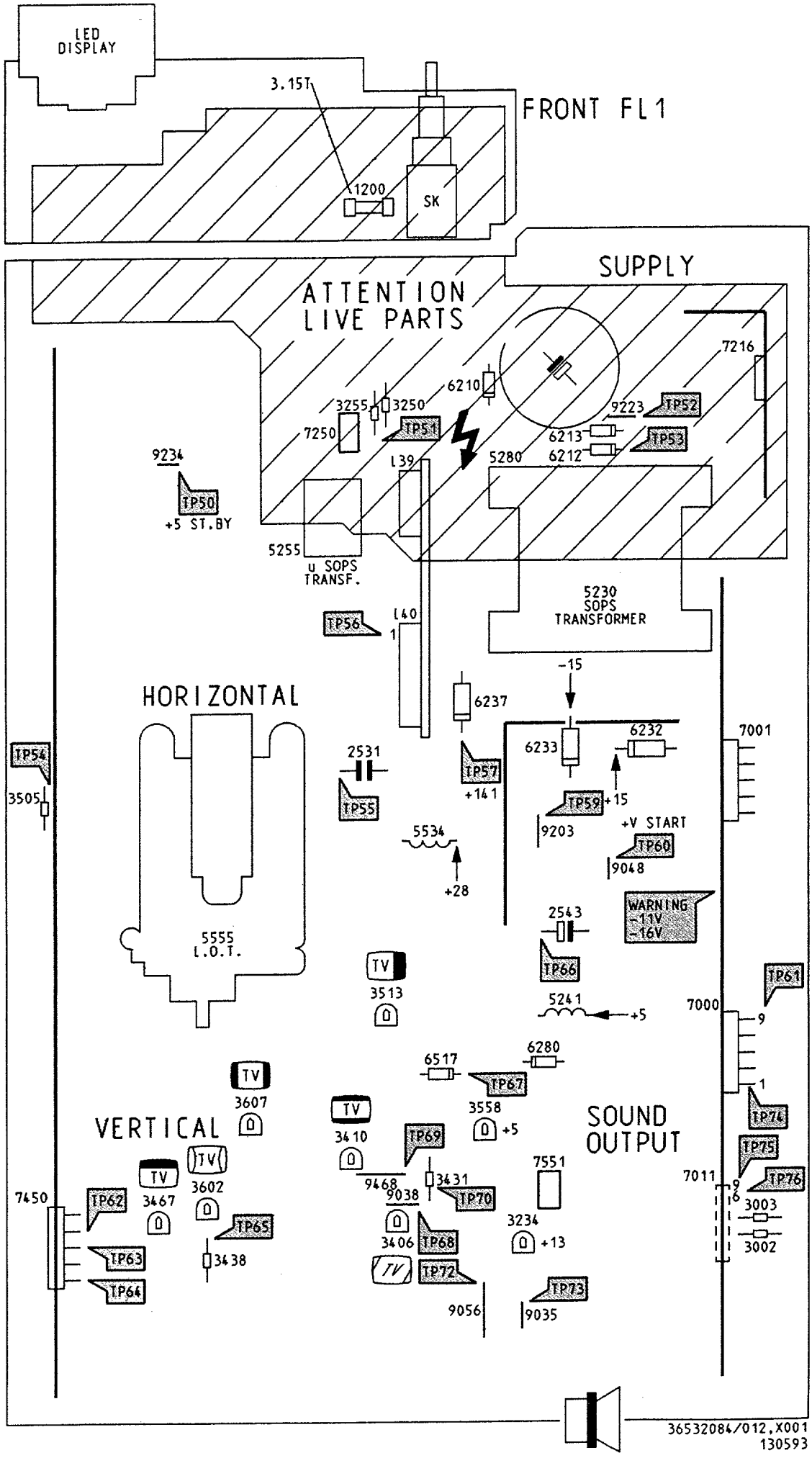


Small signal panel / Klein-signal Platte / Platine à petites signeaux

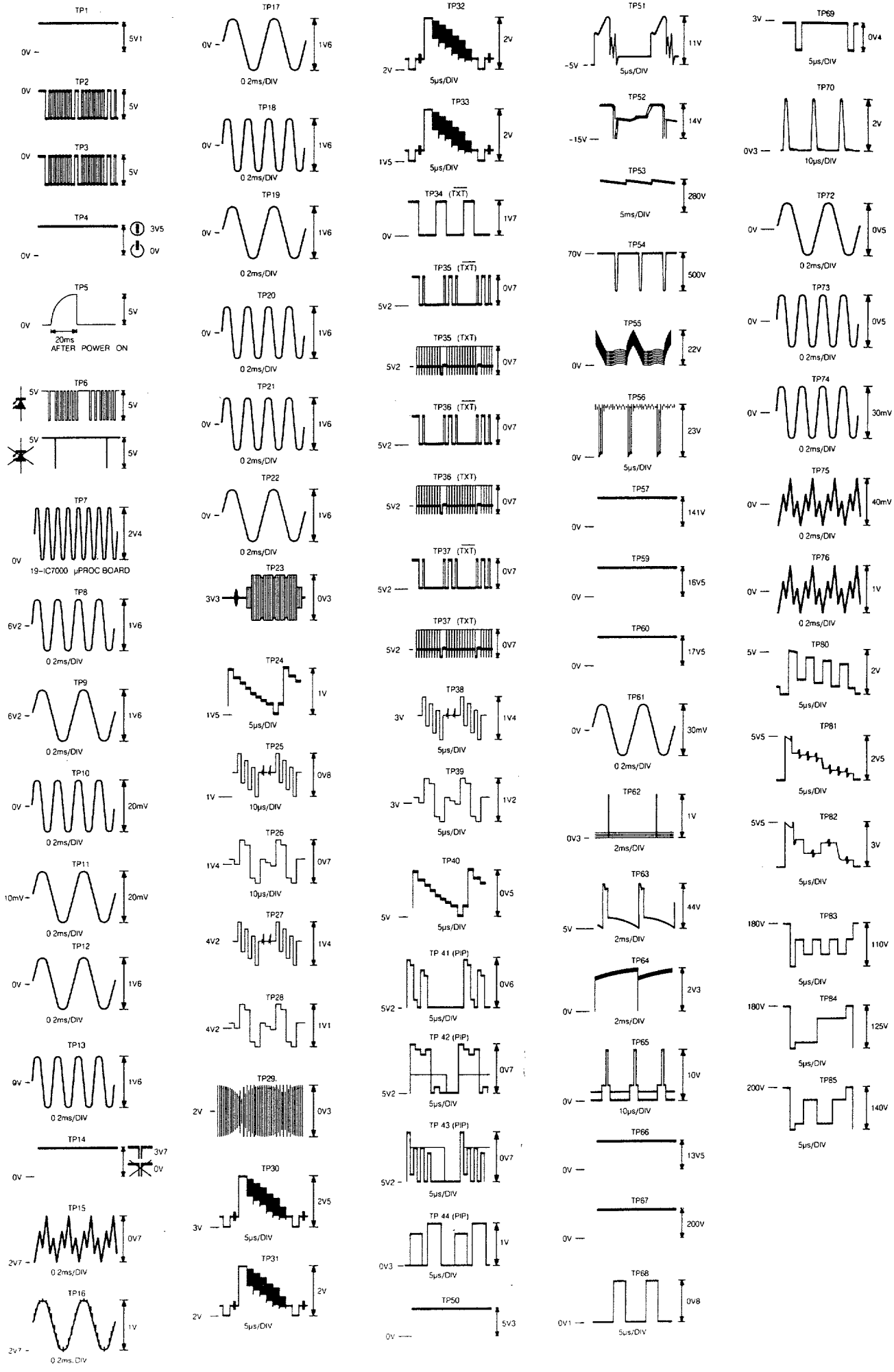


CL46532022/014.X001
160294

Large signal panel / Groß-signal Platte / Platine forts signeaux

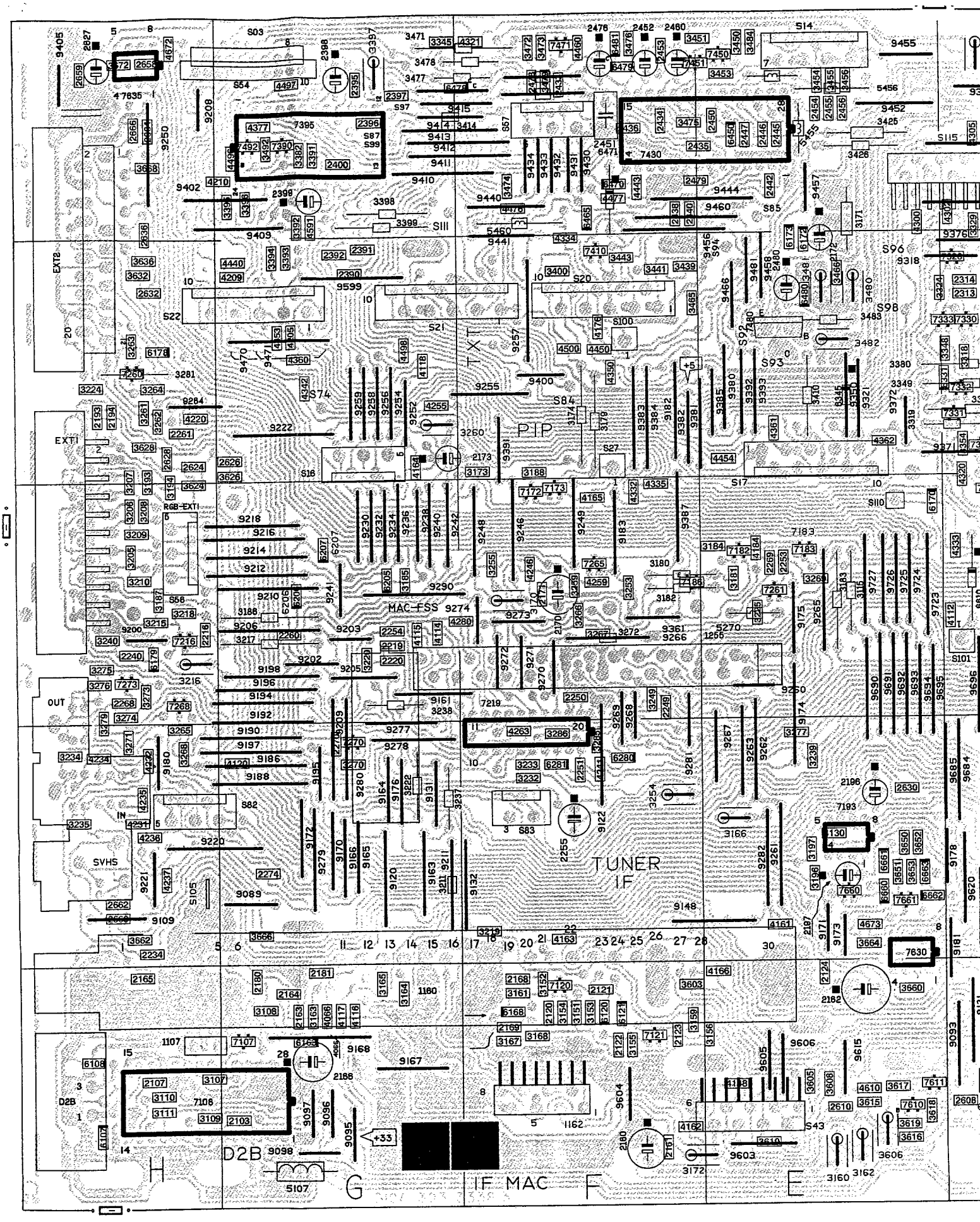


Oscillograms / Oscillogrammes

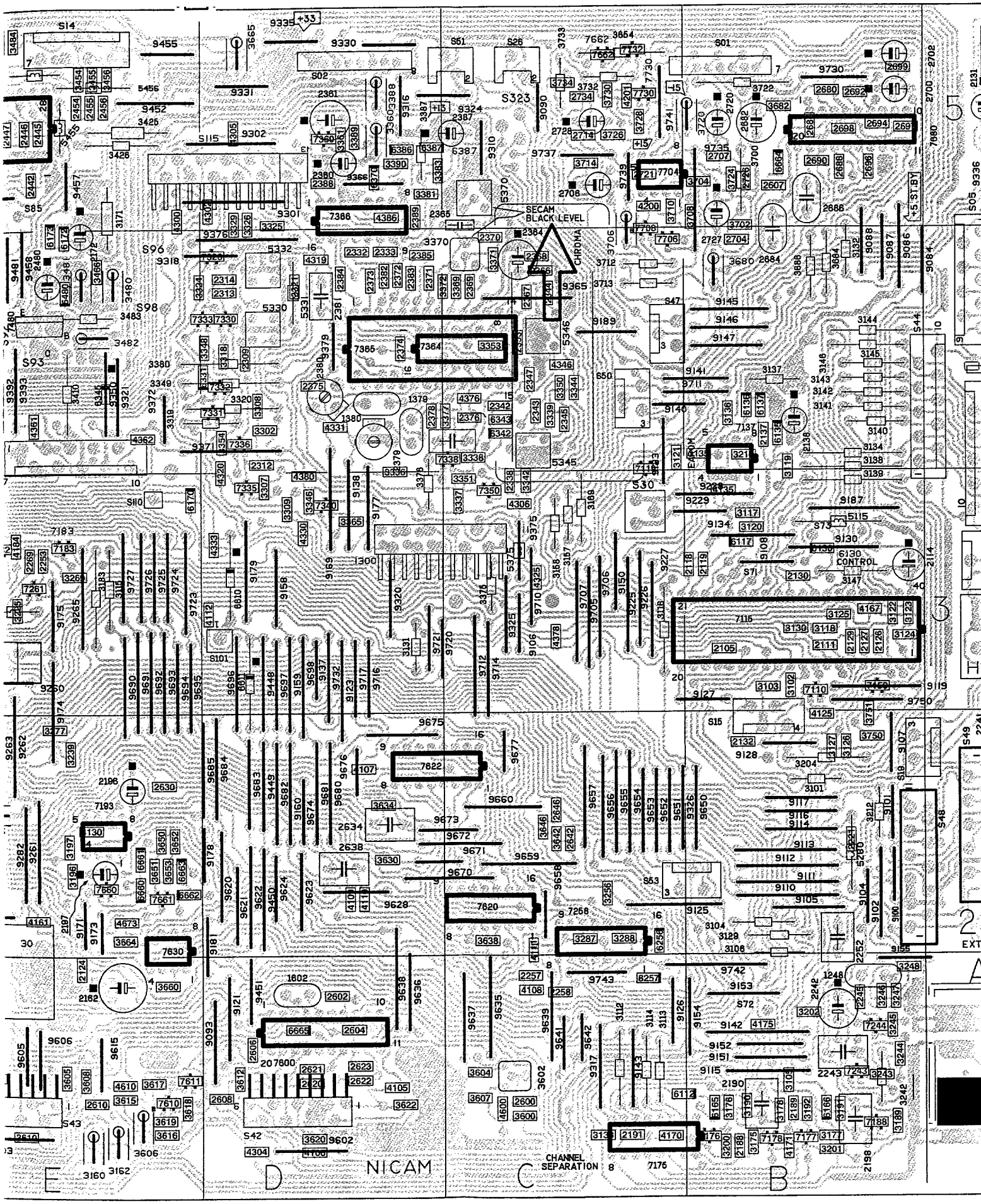


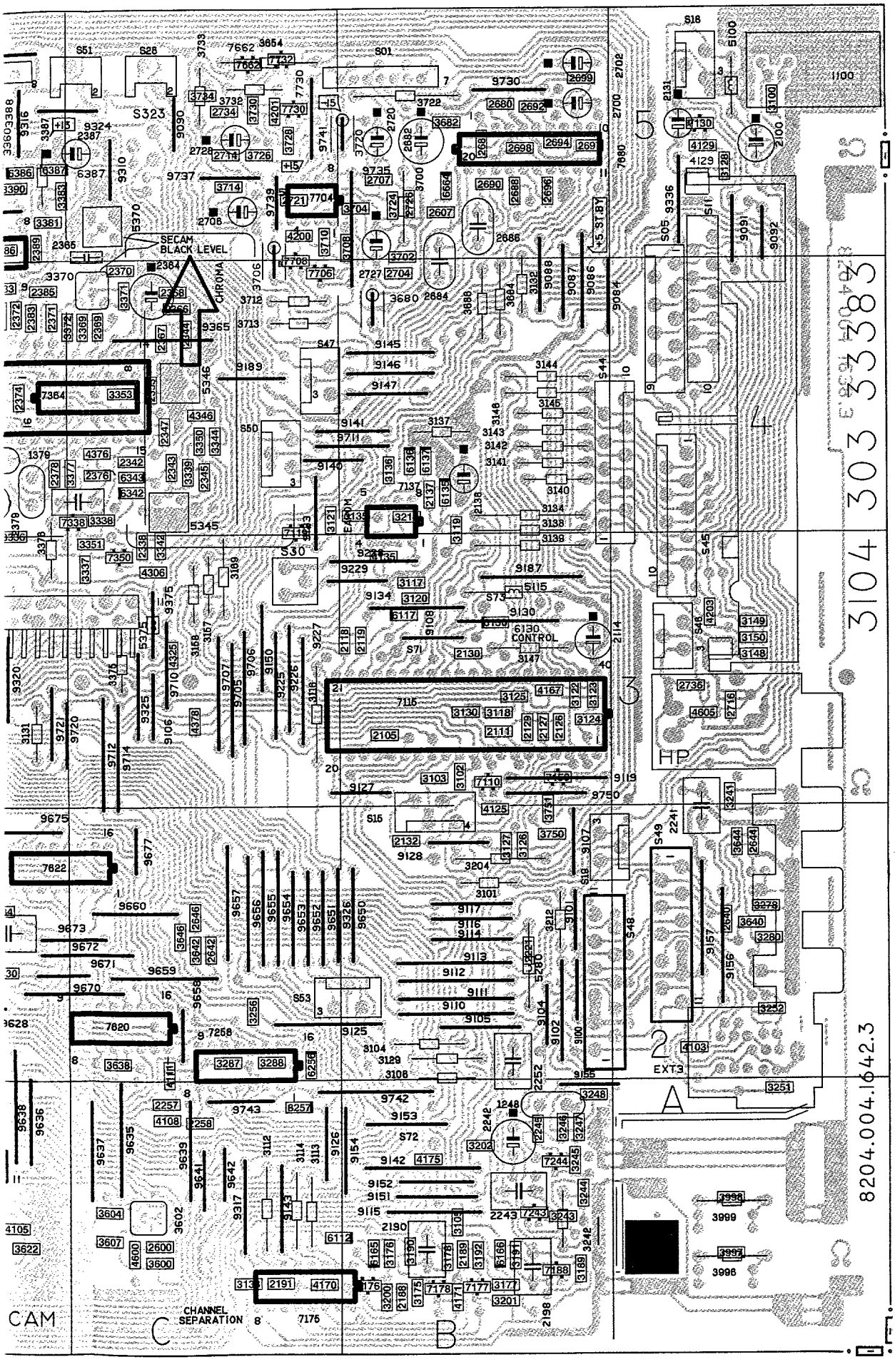
0V4
2V
0V5
0V5
30mV
40mV
1V
2V
2V5
3V
110V
125V
140V

Small signal panel / Klein-signal Platte / Platine à petites signeaux



;igneaux


SECAM BLACK LEVEL
CHROMA
NICAM
CHANNEL SEPARATION
6130 CONTROL
EXT



EXT1	H3	2332	D4	3100
EXT2	H4	2333	D4	3101
EXT3	A3	2338	C3	3102
D2B	H1	2342	C4	3103
SVHS	H2	2343	C4	3104
S01	C5	2344	C4	3105
S02	D5	2345	C4	3106
S03	H5	2347	C4	3107
S05	A5	2353	C4	3108
S11	A5	2360	D5	3109
S14	E5	2361	D5	3110
S15	B3	2364	C4	3111
S16	G4	2365	C5	3112
S17	E4	2366	C4	3113
S18	A5	2367	C4	3114
S19	B2	2368	C4	3115
S20	F4	2369	C4	3116
S21	F4	2370	C5	3117
S22	G4	2371	D4	3118
S26	C5	2372	D4	3119
S27	F4	2373	D4	3120
S42	D1	2374	D4	3121
S43	F1	2375	D4	3122
S44	B4	2376	C4	3123
S45	A4	2377	D4	3124
S46	A3	2378	D4	3125
S47	C4	2379	D4	3126
S48	B2	2380	D4	3127
S49	A2	2381	D4	3128
S50	C4	2382	D4	3129
S51	C5	2383	D4	3130
S53	B2	2384	D4	3131
S54	H5	2385	D4	3132
S56	H3	2387	D5	3133
S57	F5	2388	D5	3134
S82	H2	2389	D5	3135
S83	F2	2390	G4	3136
S100	F4	2391	G5	3137
S101	D3	2392	G4	3138
S105	H2	2395	G5	3139
S115	E5	2396	G5	3140
1100	A5	2397	G5	3141
1107	H1	2398	G5	3142
1160	E2	2399	G5	3143
1162	F1	2400	G5	3144
1248	B1	2433	F5	3145
1300	D3	2434	F5	3146
1379	D4	2435	F5	3147
1380	D4	2436	F5	3148
1602	D1	2438	F5	3149
2100	A5	2440	F5	3150
2103	H1	2442	E5	3151
2105	B3	2445	E5	3152
2107	H1	2446	E5	3153
2111	B3	2447	E5	3154
2114	B3	2450	F5	3155
2118	C3	2451	F5	3156
2119	B3	2452	F5	3157
2120	F1	2453	F5	3158
2121	F1	2454	E5	3159
2122	F1	2455	E5	3160
2123	F1	2456	E5	3161
2124	E1	2460	F5	3162
2126	B3	2476	F5	3163
2127	B3	2478	F5	3164
2129	B3	2479	F5	3165
2130	B3	2480	E4	3166
2131	A5	2600	C1	3167
2132	B2	2602	D1	3168
2137	B4	2604	D1	3169
2138	B4	2606	D1	3170
2160	F1	2607	B5	3171
2161	F1	2608	D1	3172
2162	E1	2610	E1	3173
2163	G1	2620	D1	3174
2164	G1	2621	D1	3175
2165	H1	2622	D1	3176
2166	G1	2623	D1	3177
2168	F1	2624	H4	3178
2169	F1	2626	H4	3179
2170	F3	2627	H5	3180
2171	F3	2628	H4	3181
2172	E5	2630	E2	3182
2173	G4	2632	H4	3183
2180	G1	2634	D2	3184
2181	G1	2636	H5	3185
2188	B1	2638	D2	3186
2189	B1	2640	A2	3187
2190	B1	2642	C2	3188
2191	C1	2644	A2	3189
2193	H4	2646	C2	3190
2194	H4	2658	H5	3191
2196	E2	2659	H5	3192
2197	E2	2660	H2	3193
2198	B1	2662	H2	3194
2216	H3	2664	H5	3195
2219	G3	2666	H5	3196
2220	G3	2680	B5	3200
2221	B2	2681	B5	3201
2234	H2	2682	B5	3202
2240	H3	2684	B5	3203
2241	A3	2686	B5	3204
2242	B1	2688	B5	3205
2243	B1	2690	B5	3206
2245	B1	2692	B5	3207
2249	F3	2694	B5	3208
2250	F3	2696	B5	3210
2251	F2	2697	B5	3211
2252	B2	2698	B5	3212
2253	E3	2699	B5	3213
2254	G3	2700	B5	3214
2255	F2	2702	B5	3215
2257	C1	2704	B4	3216
2258	C1	2706	C5	3217
2260	G3	2707	B5	3218
2261	H4	2714	C5	3220
2268	H3	2716	A3	3221
2269	E3	2720	B5	3222
2270	G2	2721	C5	3223
2274	G2	2726	B5	3224
2309	D4	2727	B5	3225
2312	D4	2728	C5	3226
2313	D4	2734	C5	3227
2314	D4	2736	A3	3228

3100	A5	3238	G3	3480	E4	4259	F3	7172	F3	9159	D3	9383	F4
3101	B2	3239	E2	3481	E4	4263	F2	7173	F4	9160	D2	9384	F4
3102	B3	3240	H3	3482	E4	4280	G3	7175	B1	9161	G3	9385	F4
3103	B3	3241	A3	3483	E4	4300	E5	7176	B1	9163	G2	9387	F3
3104	B2	3242	B1	3484	E5	4302	E5	7177	B1	9164	G2	9391	F4
3105	B1	3243	B1	3492	G5	4304	D1	7178	B1	9165	G2	9392	E4
3106	B2	3244	B1	3600	C1	4305	D5	7182	E3	9166	G2	9393	E4
3107	H1	3245	B1	3602	C1	4306	C3	7183	E3	9167	G1	9400	F4
3108	G1	3246	B1	3603	F1	4319	D4	7186	F3	9168	G1	9402	H5
3109	H1	3247	B1	3604	C1	4320	D4	7188	B1	9169	D3	9403	F5
3110	H1	3248	B1	3605	E1	4321	G5	7193	E2	9170	G2	9404	F5
3111	H1	3249	F3	3606	E1	4325	C3	7216	H3	9171	E2	9405	H5
3112	C1	3251	A1	3607	C1	4330	D3	7219	F2	9172	G2	9409	H5
3113	C1	3252	A2	3608	E1	4331	D4	7243	B1	9173	E2	9410	G5
3114	C1	3253	F3	3610	E1	4332	F3	7244	B1	9174	E3	9411	G5
3115	E3	3254	F2	3612	D1	4333	E3	7258	C1	9175	E3	9412	G5
3116	C3	3255	F3	3615	E1	4334	F5	7260	H4	9176	G2	9413	G5
3117	B3	3256	C2	3616	E1	4335	F4	7261	E3	9177	D3	9414	G5
3118	B3	3257	C1	3617	E1	4342	G4	7265	F3	9178	E2	9415	G5
3119	B4	3259	F3	3618	E1	4346	C4	7268	H3	9179	D3	9416	G5
3120	B3	3260	G4	3619	E1	4350	F4	7270	G2	9180	H2	9430	F5
3121	C4	3261	H4	3620	D1	4360	G4	7273	H3	9181	E2	9431	F5
3122	B3	3262	H4	3622	D1	4361	E4	7326	E4	9182	F4	9432	F5
3123	B3	3263	H4	3624	H4	4362	E4	7330	D4	9183	F3	9433	F5
3124	B3	3264	H4	3626	H4	4376	C4	7331	E4	9186	G2	9434	F5
3125	B3	3265	H3	3628	H4	4377	G5	7332	D4	9187	B3	9440	F5
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3128	A5	3268	H2	3634	D2	4386	D5	7336	D4	9190	G2	9448	D3
3129	B2	3269	E3	3636	H4	4440	H4	7338	D4	9192	G3	9449	D2
3130	B3	3270	G2	3638	C2	4443	F5	7340	D3	9194	G3	9450	D2
3131	D3	3271	H2	3640	A2	4450	F4	7350	C3	9195	G2	9451	D1
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3136	B4	3276	H3	3651	E2	4477	F5	7390	G5	9202	G3	9458	E4
3137	B4	3277	E2	3652	E2	4496	H5	7395	G5	9203	G3	9460	F5
3138	B4	3278	A2	3653	E2	4497	G5	7410	F4	9205	G3	9466	E4
3139	B4	3279	H3	3654	C5	4498	G4	7430	E5	9206	G3	9470	G4
3140	B4	3280	A2	3660	E1	4500	F4	7450	E5	9208	H5	9471	G4
3141	B4	3281	H4	3662	H2	4591	G5	7451	F5	9209	G2	9481	E4
3142	B4	3285	F2	3664	E2	4600	C1	7471	F5	9210	G3	9599	G4
3143	B4	3286	F2	3665	D5	4605	A3	7480	E4	9211	G2	9602	D1
3144	B4	3287	C2	3666	G2	4610	E1	7492	G5	9212	G3	9603	E1
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3151	F1	3319	E4	3700	B5	5280	B2	7635	H5	9225	C3	9622	D2
3152	F1	3320	D4	3702	B5	5303	F5	7660	E2	9226	C3	9623	D2
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3155	F1	3325	D5	3708	C5	5331	D4	7680	B5	9229	B3	9635	C1
3156	F1	3326	D5	3710	C5	5332	D4	7704	C5	9230	G3	9636	D1
3157	C3	3329	D5	3712	C4	5345	C4	7706	C5	9232	G3	9637	C1
3158	C3	3336	D4	3713	C4	5346	C4	7708	C5	9234	G3	9638	D1
3159	F1	3337	C3	3714	C5	5370	C5	7730	C5	9236	G3	9639	C1
3160	E1	3338	C4	3720	C5	5375	C3	7732	C5	9238	G3	9641	C1
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3162	E1	3342	C3	3724	B5	5455	E5	9086	B4	9241	G3	9650	B2
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3168	F1	3350	C4	3734	C5	6117	B3	9092	A5	9252	G4	9656	C2
3169	C3	3351	C4	3750	B2	6120	F1	9093	E1	9254	G4	9657	C2
3170	F3	3353	C4	3751	B3	6121	F1	9095	G1	9255	F4	9658	C2
3171	E5	3354	D4	3996	A1	6130	B3	9096	G1	9256	G4	9659	C2
3172	F1	3360	D5	3997	A1	6135	B4	9097	G1	9257	F4	9660	C2
3173	G4	3361	D5	3998	A1	6136	B4	9098	G1	9258	G4	9670	D2
3174	F4	3365	D3	3999	A1	6137	B4	9100	B2	9259	G4	9671	D2
3175	B1	3369	C4	4066	G1	6163	G1	9101	B2	9260	E3	9672	C2
3176	B1	3370	D4	4103	A2	6165	B1	9102	B2	9261	E2	9673	D2
3177	B1	3371	C4	4105	D1	6166	B1	9104	B2	9262	E2	9674	D2
3178	B1	3372	D4	4106	D1	6168	F1	9105	B2	9263	E2	9675	D2
3179	F4	3375	C3	4107	D2	6170	E3	9106	C3	9264	H4	9676	D2
3180	F3	3376	D3	4108	C1	6172	E5	9107	B2	9265	E3	9677	C2
3181	E3	3377	D4	4109	D2	6173	E5	9108	B3	9266	F3	9680	D2
3182	F3	3380	D4	4110	D2	6178	H4	9109	H2	9267	F2	9681	D2
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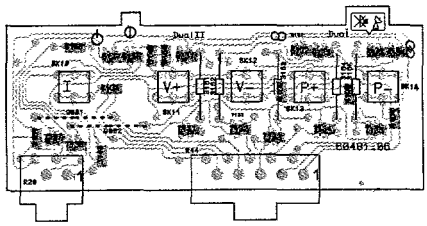
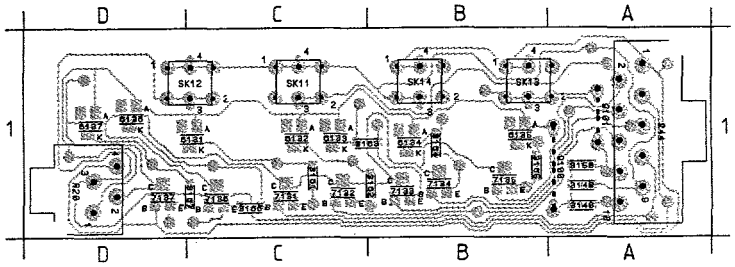
3188	F4	3389	D5	4117	G1	6257	C1	9115	B1	9273	F3	9691	E3
3189	B1	3390	D5	4118	G4	6280	F2	9116	B2	9274	G3	9692	E3
3190	B1	3391	G5	4120	H2	6281	F2	9117	B2	9277	G3	9693	E3
3191	B1	3392	G5	4125	B3	6331	E4	9119	B3	9278	G2	9694	E3
3192	B1	3393	G4	4129	A5	6342	C4	9120	G2	9279	G2	9695	E3
3193	H4	3394	G4	4130	E2	6343	C4	9121	D1	9280	G2	9696	D3
3194	H4	3395	H5	4135	B3	6345	E4	9122	F2	9281	F3	9697	D3
3196	E2	3396	G5	4148	E1	6370	D5	9123	D3	9282	E2	9698	D3
3197	E2	3397	G5	4161	E2	6386	D5	9125	C2	9290	G3	9705	C3
3200	B1	3398	G5	4162	F1	6387	D5	9126	C1	9301	D5	9706	C3
3201	B1	3399	G5	4163	F2	6450	E5	9127	B3	9302	D5	9707	C3
3202	B1	3400	F4	4164	G4	6465	F5	9128	B2	9310	C5	9710	C3
3204	B2	3410	E4	4165	F3	6470	F5	9130	B3	9316	D5	9711	C4
3205	H3	3414	G5	4166	F1	6471	F5	9131	G2	9317	C1	9712	C3
3206	H3	3425	E5	4167	B3	6478	G5	9132	G2	9318	E4	9714	C3
3207	H4	3426	E5	4170	C1	6479	F5	9133	C4	9320	D3	9716	D3
3208	H3	3439	F4	4171	B1	6480	E4	9134	B3	9321	E4	9717	D3
3209	H3	3441	F4	4175	B1	6481	F5	9137	D3	9324	D5	9720	D3
3210	H3	3443	F4	4176	F4	6610	D3	9138	D3	9325	C3	9721	D3
3211	G2	3450	E5	4184	E3	6611	D3	9140	B4	9326	C2	9723	E3
3212	B2	3451	F5	4200	C5	6660	E2	9141	B4	9330	D5	9724	E3
3213	B4	3453	E5	4201	C5	6661	E2	9142	B1	9331	D5	9725	E3
3215	H3	3454	E5	4203	A3	6662	E2	9143	C1	9335	D5	9726	E3
3216	H3	3455	E5	4205	G4	6663	E2	9145	B4	9336	A5	9727	E3
3217	G3	3456	E5	4209	H4	6664	B5	9146	B4	9350	E4	9730	B5
3218	H3	3465	F4	4210	H5	6665	D1	9147	B4	9361	F3	9732	D3
3219	F2	3466	E4	4220	H4	7107	H1	9148	F2	9365	C4	9735	B5
3220	G3	3471	G5	4231	H2	7108	G1	9150	C3	9366	D5	9737	C5
3222	G2	3472	F5	4232	H2	7110	B3	9151	B1	9371	D4	9739	C5
3224	H4	3473	F5	4234	H2	7115	B3	9152	B1	9372	E4	9741	C5
3225	E3	3474	F5	4235	H2	7119	C4	9153	B1	9375	C3	9742	B1
3232	F2	3475	F5	4236	H2	7120	F1	9154	C1	9376	D5	9743	C1
3233	F2	3476	F5	4237	H2	7121	F1	9155	B1	9379	D4	9750	B3
3234	H2	3477	G5	4241	F2	7130	A5	9156	A2	9380	E4		
3235	H2	3478	G5	4246	F3	7137	B4	9157	A2	9381	F4		
3237	G2	3479	F5	4255	G4	7150	B3	9158	D3	9382	F4		

FL2 LED/Control

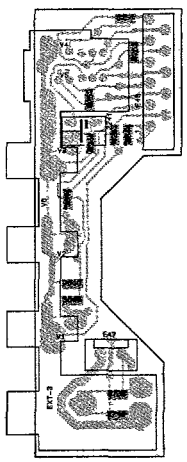


FL4 LED/Control

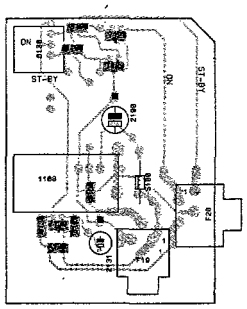
3148 A 1	3163 C 1	6131 C 1	6136 D 1	7134 B 1	9181 A 1	SK13 B 1
3149 A 1	3164 B 1	6132 C 1	6137 D 1	7135 B 1	R28 D 1	SK14 B 1
3158 A 1	3165 B 1	6133 C 1	7131 C 1	7136 C 1	R44 A 1	
3161 C 1	3166 C 1	6134 B 1	7132 C 1	7137 D 1	SK11 C 1	
3162 B 1	3167 C 1	6135 B 1	7133 B 1	9180 A 1	SK12 D 1	



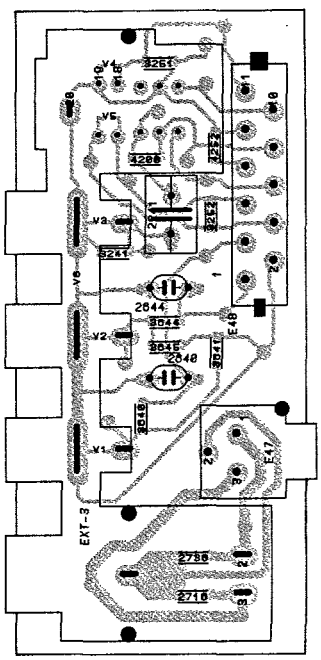
FL2 Front



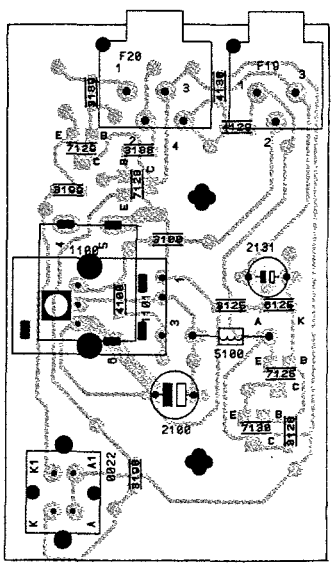
FL2 IR

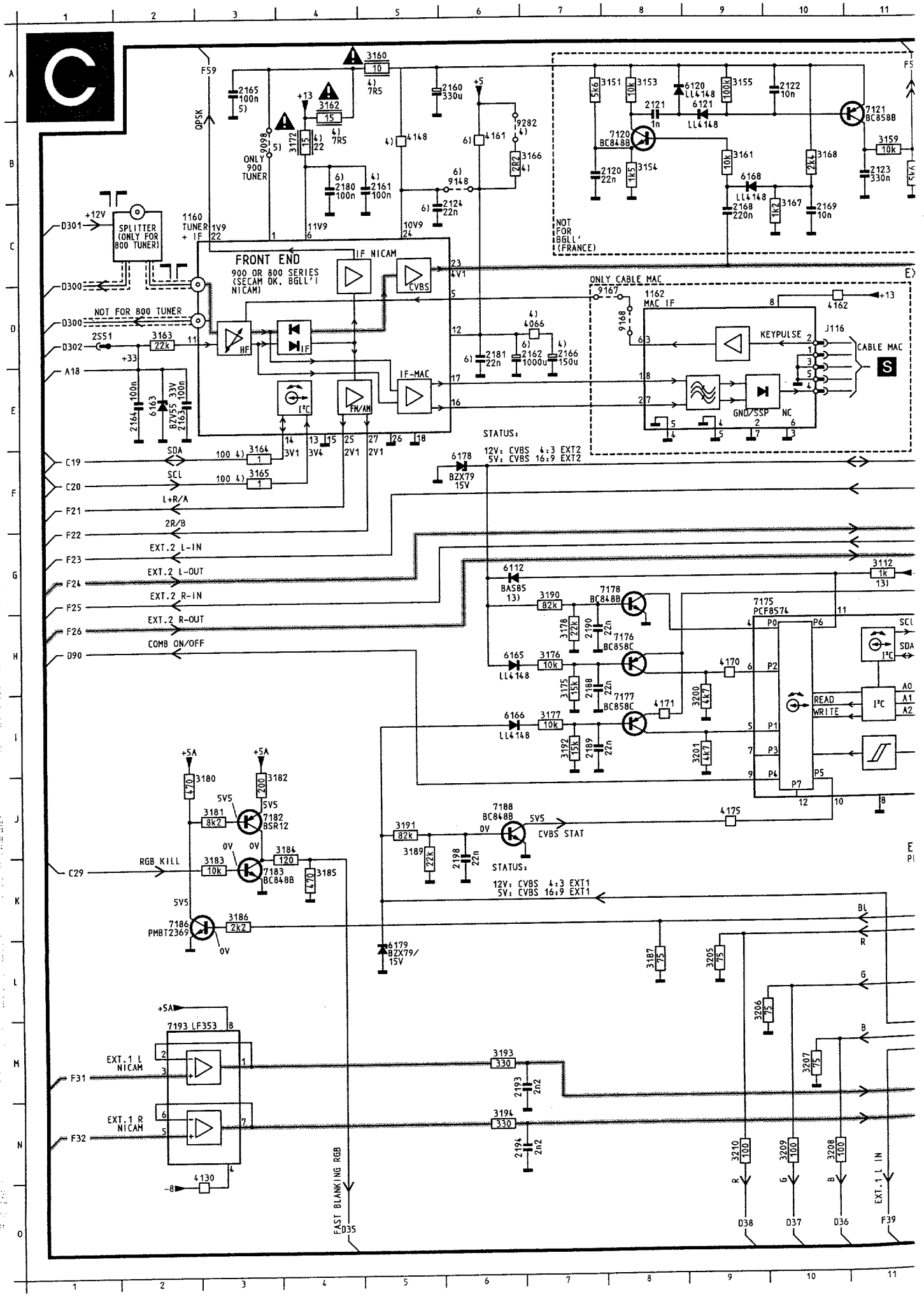


FL4 Front

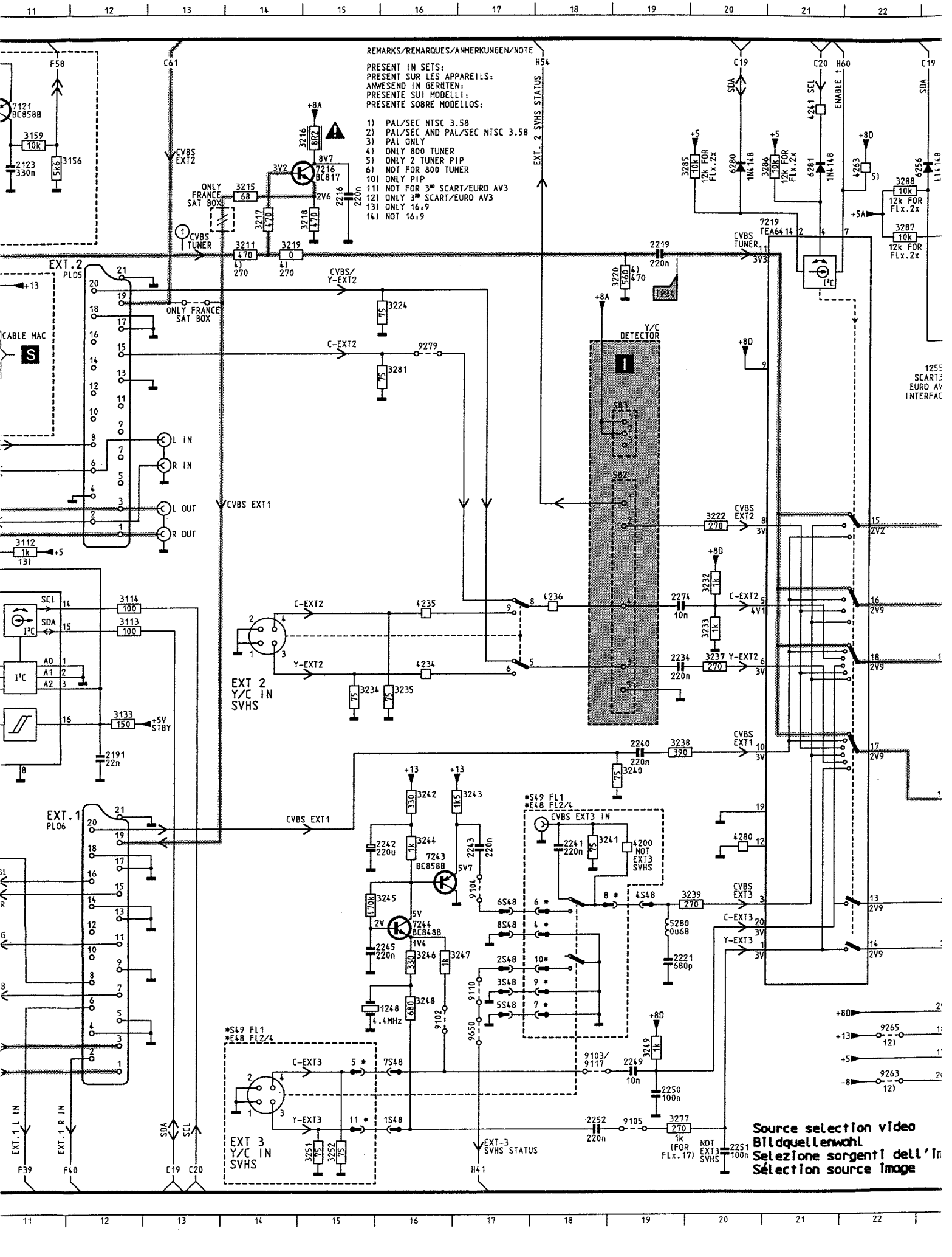


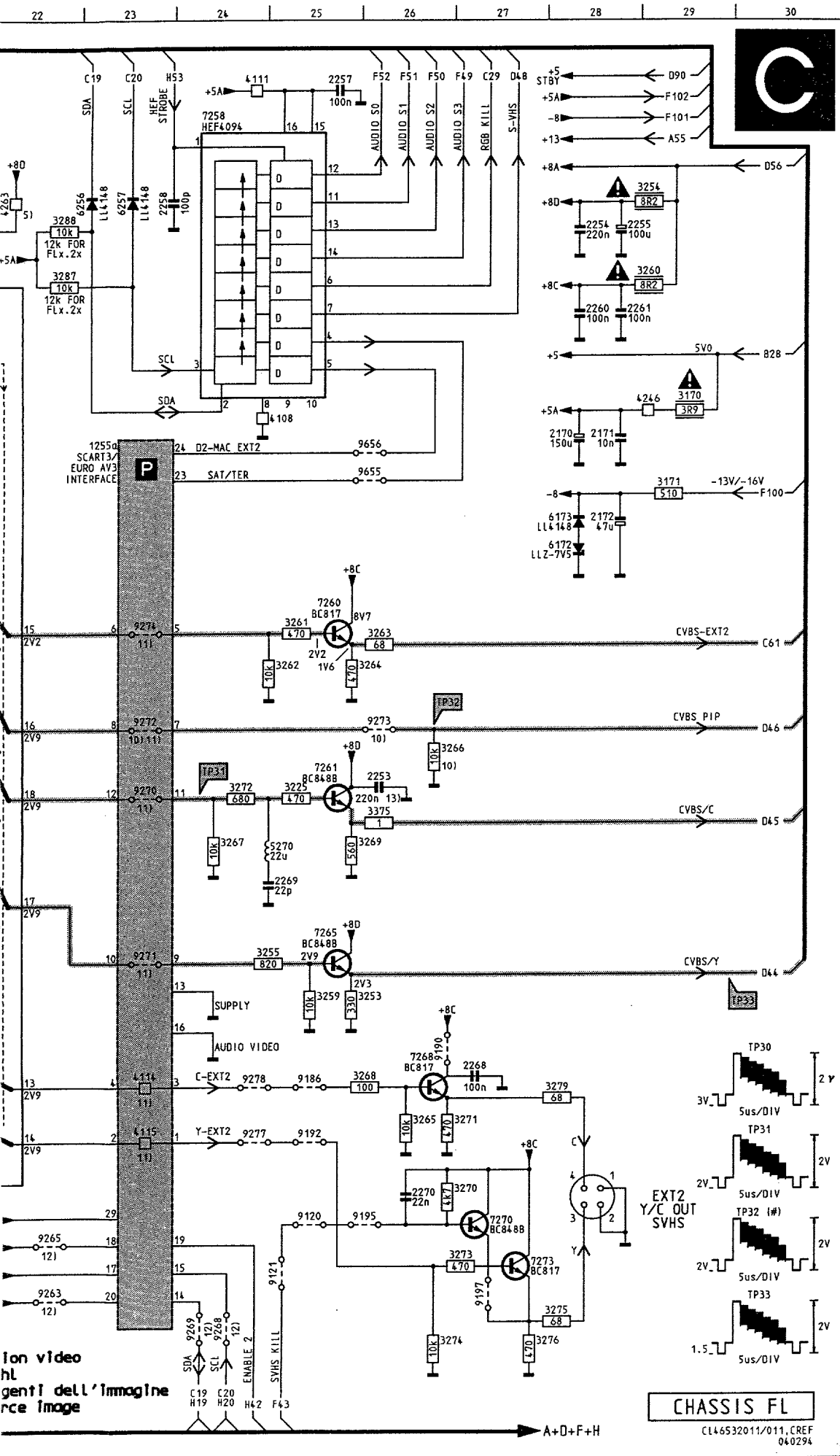
FL4 IR LED panel



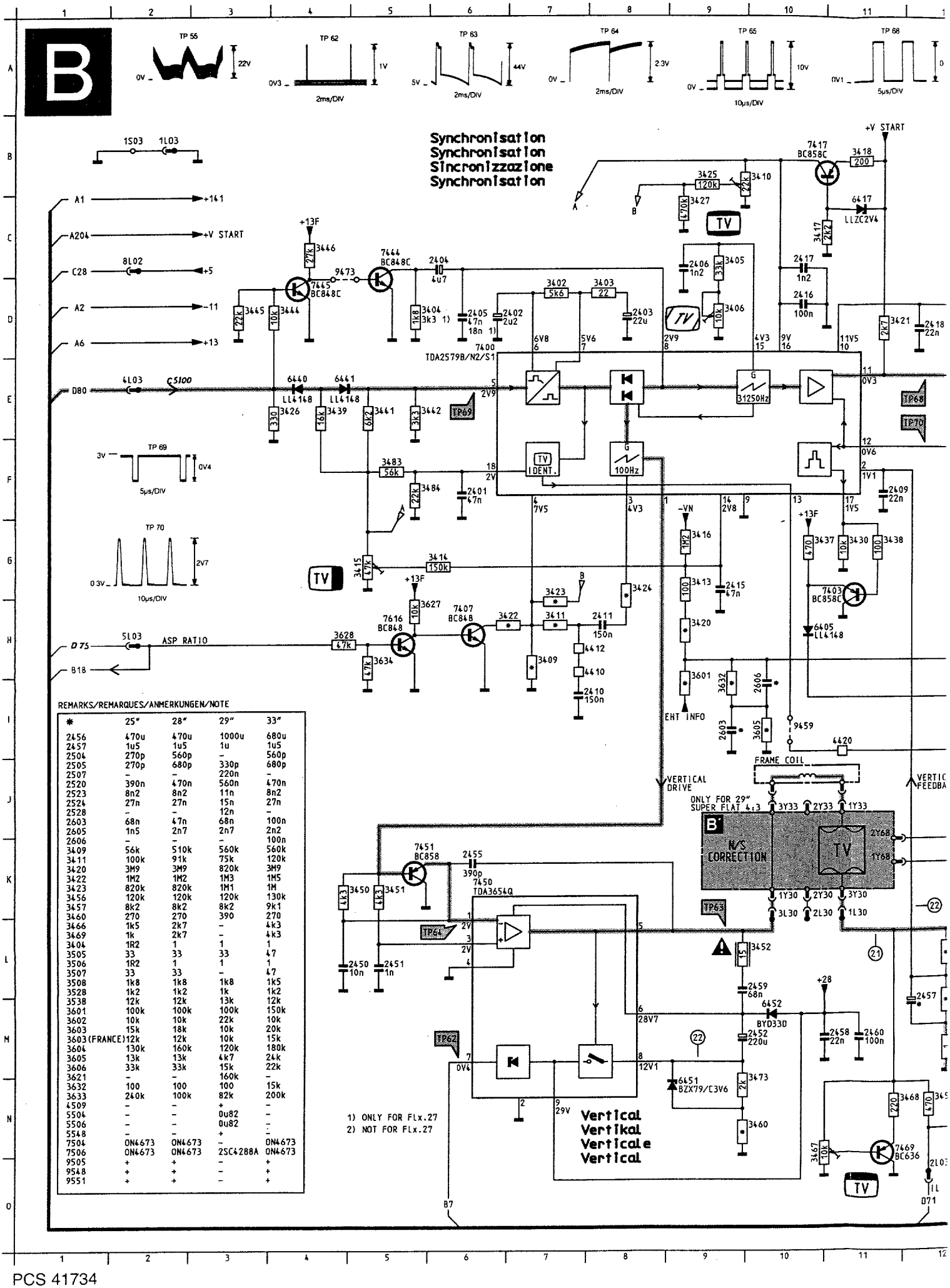

C
FRONT END
900 OR 800 SERIES
(SECAM DK, BGLL'I
NICAM)
SPLITTER
(ONLY FOR
800 TUNER)
NOT FOR 800 TUNER
ONLY 900 TUNER
NOT FOR BGLL' (FRANCE)
ONLY CABLE MAC
MAC IF
KEYPULSE
CABLE MAC
IF NICAM
IF-MAC
STATUS:
12V: CVBS 4:3 EXT2
5V: CVBS 16:9 EXT2
12V: CVBS 4:3 EXT1
5V: CVBS 16:9 EXT1
CVBS STAT
RGB KILL
FAST BLANKING RGB
EXT.1 L NICAM
EXT.1 R NICAM
EXT.1 L IN
COMB ON/OFF
L+R/A
2R/B
EXT.2 L-IN
EXT.2 L-OUT
EXT.2 R-IN
EXT.2 R-OUT
SDA
SCL
READ
WRITE
7193 LF353
PCF8574
BC848B
BC858C
BSR12
PMBT2369
BAS85
LL4148
BZX79 15V
BZX79/ 15V
GND/SSP
CVBS

Sélection de source



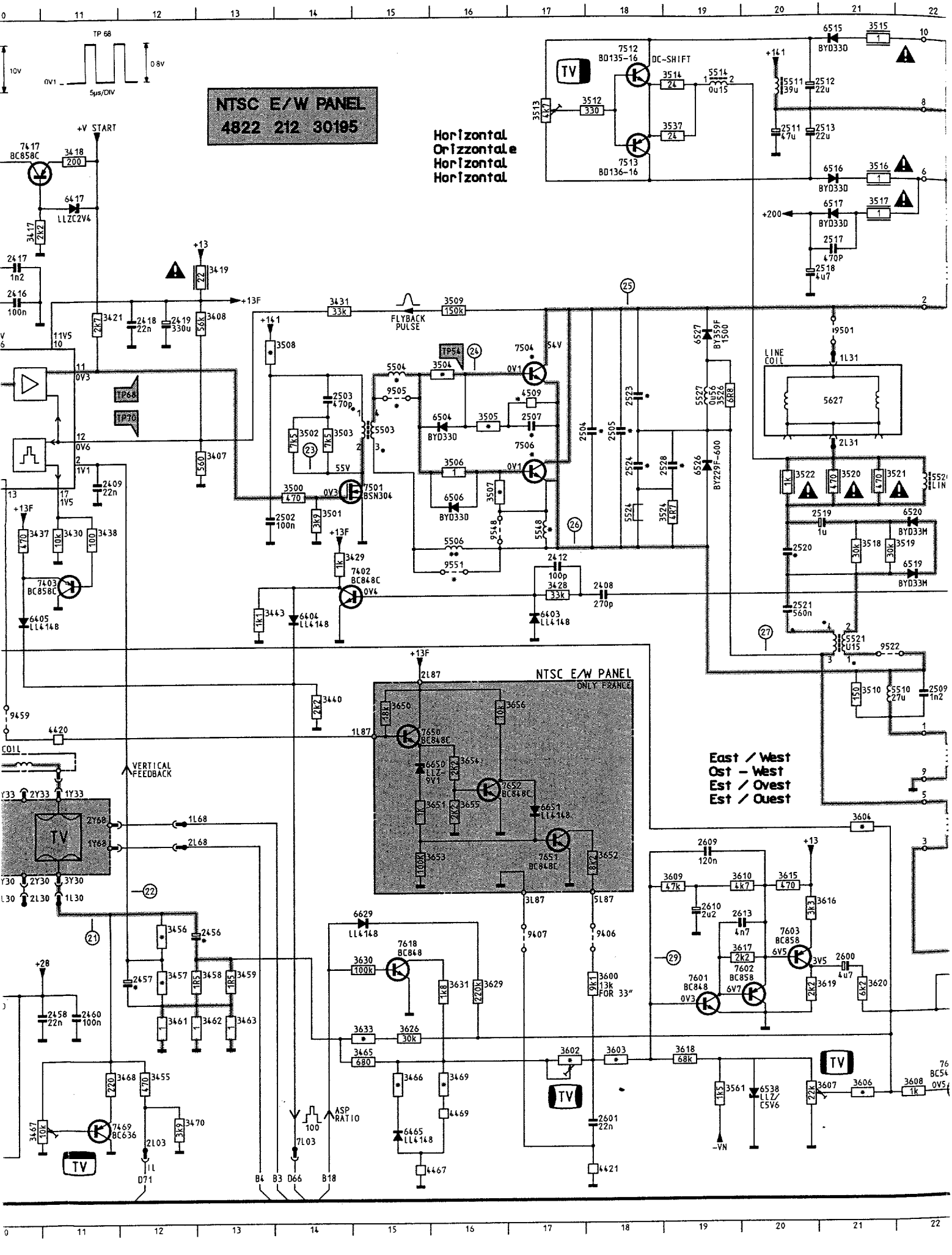


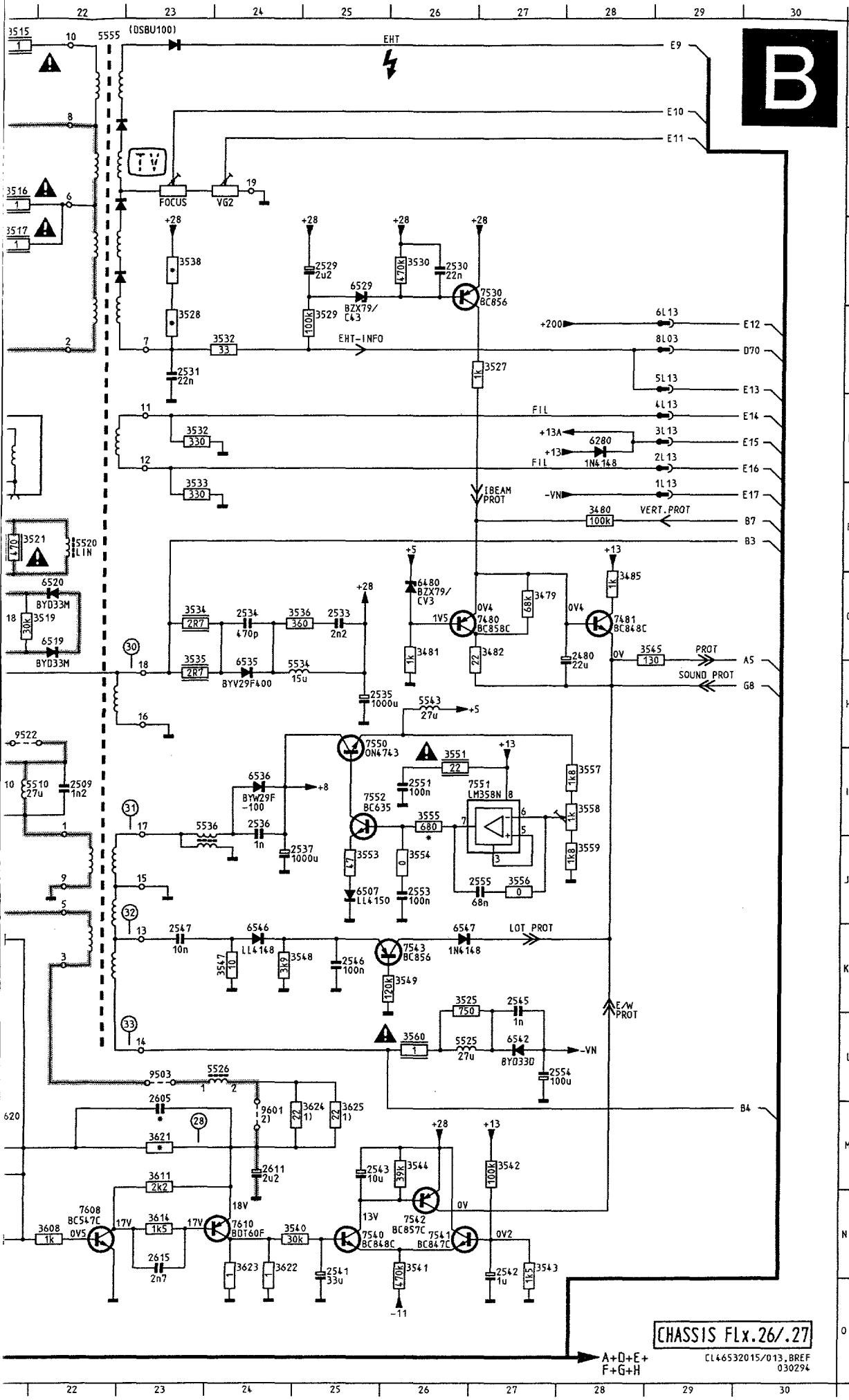
1160	C 2	3237	I20	9192	L25
1162	D 8	3238	J19	9195	M26
1248	M16	3239	L20	9197	N27
1255	E23	3240	J19	9263	N22
2120	B 7	3241	K18	9265	M22
2121	A 8	3242	J16	9268	N24
2122	A10	3243	J17	9269	N24
2123	B11	3244	K16	9270	I23
2124	C 6	3245	L16	9271	J23
2160	A 6	3246	L16	9272	H23
2161	B 5	3247	L16	9273	H26
2162	D 7	3248	M16	9274	G23
2163	E 2	3249	N19	9277	L24
2164	E 2	3251	O15	9278	L24
2165	A 3	3252	O15	9279	E16
2166	D 7	3253	K25	9282	B 6
2168	C 9	3254	B29	9650	M17
2169	C10	3255	J25	9655	E26
2170	E28	3259	K25	9656	E26
2171	E28	3260	C29		
2172	F28	3261	G25		
2180	B 4	3262	G25		
2181	D 6	3263	G26		
2188	I 7	3264	G25		
2189	I 7	3265	L26		
2190	H 7	3266	H26		
2191	J12	3267	I24		
2193	M 6	3268	L26		
2194	N 6	3269	I25		
2198	K 6	3270	M27		
2216	C15	3271	L27		
2219	C19	3272	I24		
2221	L19	3273	N27		
2234	I19	3274	N26		
2240	J19	3275	N28		
2241	K18	3276	N27		
2242	K15	3277	O19		
2243	K17	3279	L28		
2245	L15	3281	E16		
2249	N19	3285	B19		
2250	N19	3286	B21		
2251	O20	3287	C22		
2252	O18	3288	B22		
2253	H26	3375	I26		
2254	C28	4066	D 7		
2255	C28	4108	E25		
2257	A25	4111	A24		
2258	B23	4114	L23		
2260	C28	4115	L23		
2261	C28	4130	N 3		
2268	L27	4148	B 5		
2269	J25	4161	B 6		
2270	M26	4162	D10		
2274	H19	4170	H 9		
3112	G11	4171	I 8		
3113	H12	4175	J 9		
3114	H12	4200	K19		
3133	I12	4234	I16		
3151	A 7	4235	H16		
3153	A 8	4236	H18		
3154	B 8	4241	B21		
3155	A 9	4246	D29		
3156	B11	4263	B22		
3159	B11	4280	K20		
3160	A 5	5270	I25		
3161	B 9	5280	L19		
3162	A 4	6112	G 6		
3163	D 2	6120	A 9		
3164	F 3	6121	A 9		
3165	F 3	6163	E 2		
3166	B 7	6165	H 6		
3167	C10	6166	I 6		
3168	B10	6168	B 9		
3170	D29	6172	F28		
3171	E29	6173	F28		
3172	B 4	6178	F 6		
3175	I 7	6179	L 5		
3176	H 7	6256	B23		
3177	I 7	6257	B23		
3178	H 7	6280	B20		
3180	I 2	6281	B21		
3181	J 3	7120	B 8		
3182	I 3	7121	B11		
3183	K 3	7175	H 9		
3184	J 4	7176	H 8		
3185	K 4	7177	I 8		
3186	K 3	7178	G 8		
3187	L 8	7182	J 3		
3189	J 5	7183	K 3		
3190	G 7	7186	K 2		
3191	J 5	7188	J 6		
3192	I 7	7193	M 2		
3193	M 6	7216	B15		
3194	N 6	7219	C20		
3200	I 9	7243	K16		
3201	I 9	7244	L16		
3205	L 9	7258	A24		
3206	L 9	7260	G25		
3207	M10	7261	H25		
3208	N10	7265	J25		
3209	N10	7268	K26		
3210	N 9	7270	M27		
3211	C14	7273	N27		
3215	C14	9098	B 3		
3216	B15	9102	M16		
3217	C14	9103	N18		
3218	C15	9104	K17		
3219	C14	9105	O19		
3220	D19	9110	M17		
3222	G20	9120	M25		
3224	D16	9121	N25		
3225	I25	9148	B 6		
3232	H20	9167	D 8		
3233	H20	9168	D 8		
3234	I15	9186	L25		
3235	I16	9190	K26		



REMARKS/REMARQUES/ANMERKUNGEN/NOTE

*	25"	28"	29"	33"
2456	470u	470u	1000u	680u
2457	1u5	1u5	1u	1u5
2504	270p	560p	-	560p
2505	270p	680p	330p	680p
2507	-	-	220n	-
2520	390n	470n	560n	470n
2523	8n2	8n2	11n	8n2
2524	27n	27n	15n	27n
2528	-	-	12n	-
2603	68n	47n	68n	100n
2605	1n5	2n7	2n7	2n2
2606	-	-	-	100n
3409	56k	510k	560k	560k
3411	100k	91k	75k	120k
3420	3M9	3M9	820k	3M9
3422	1M2	1M2	1M3	1M5
3423	820k	820k	1M1	1M
3456	120k	120k	120k	130k
3457	8k2	8k2	8k2	9k1
3460	270	270	390	270
3466	1k5	2k7	-	4k3
3469	1k	2k7	-	4k3
3404	1R2	1	1	1
3505	33	33	33	47
3506	1R2	1	1	1
3507	33	33	-	47
3508	1k8	1k8	1k8	1k5
3528	1k2	1k2	1k	1k2
3538	12k	12k	13k	12k
3601	100k	100k	100k	150k
3602	10k	10k	22k	10k
3603	15k	18k	10k	20k
3603 (FRANCE)	12k	12k	10k	15k
3604	130k	160k	120k	180k
3605	13k	13k	4k7	24k
3606	33k	33k	15k	22k
3621	-	-	160k	-
3632	100	100	100	15k
3633	240k	100k	82k	200k
4509	-	-	+	-
5504	-	-	0u82	-
5506	-	-	0u82	-
5548	-	-	+	-
7504	ON4673	ON4673	-	ON4673
7506	ON4673	ON4673	2SC4288A	ON4673
9505	+	+	-	+
9548	+	+	-	+
9551	+	+	-	+


NTSC E/W PANEL
4822 212 30195
Horizontal
Orizzontale
Horizontal
Horizontal
NTSC E/W PANEL
ONLY FRANCE
East / West
Ost - West
Est / Ovest
Est / Ouest
+V START
FLYBACK PULSE
LINE COIL
VERTICAL FEEDBACK
DC-SHIFT
ASP RATIO
TP 68
10V
0.8V
0V1
5µs/DIV


B
CHASSIS FLx.26/.27
CL46532015/013.BREF
030294
A+D+E+
F+G+H
EHT
(DSBU100)
FOCUS
VG2
TV
EHT-INFO
FIL
IBEAM
PROT
VERT.PROT
LOT PROT
E/W
PROT
SOUND PROT
-VN
+200
+13A
+13
E9
E10
E11
E12
E13
E14
E15
E16
E17
D70
B7
B3
A5
G8
B4
BZX79/
C43
BZX79/
CV3
BC547C
BDT60F
BC848C
BC857C
BC847C
BC858C
BC635
LM358N
BC856
BYD33M
BYV29F400
BYW29F
-100
ON4743
LL4148
1N4148
BYD33D
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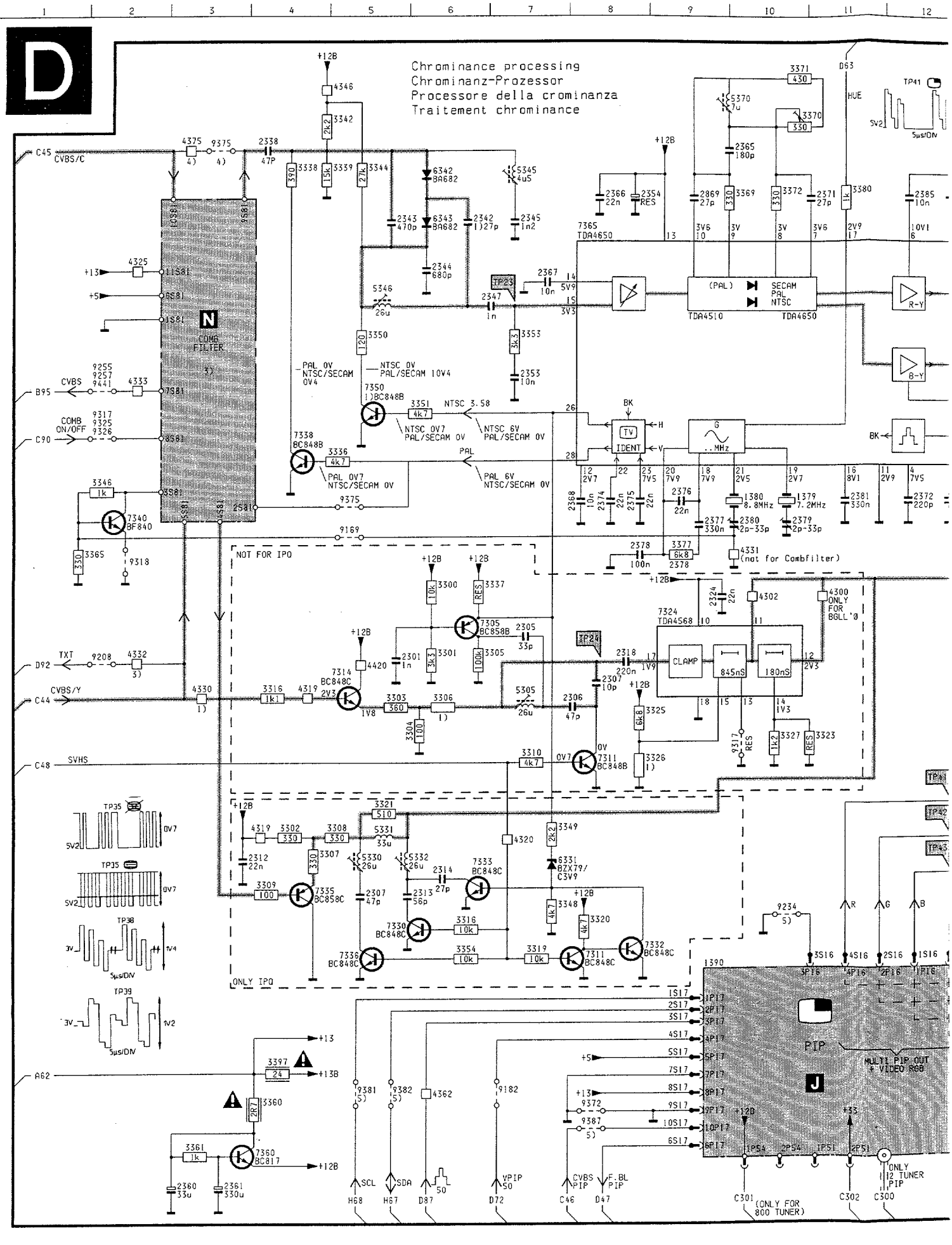
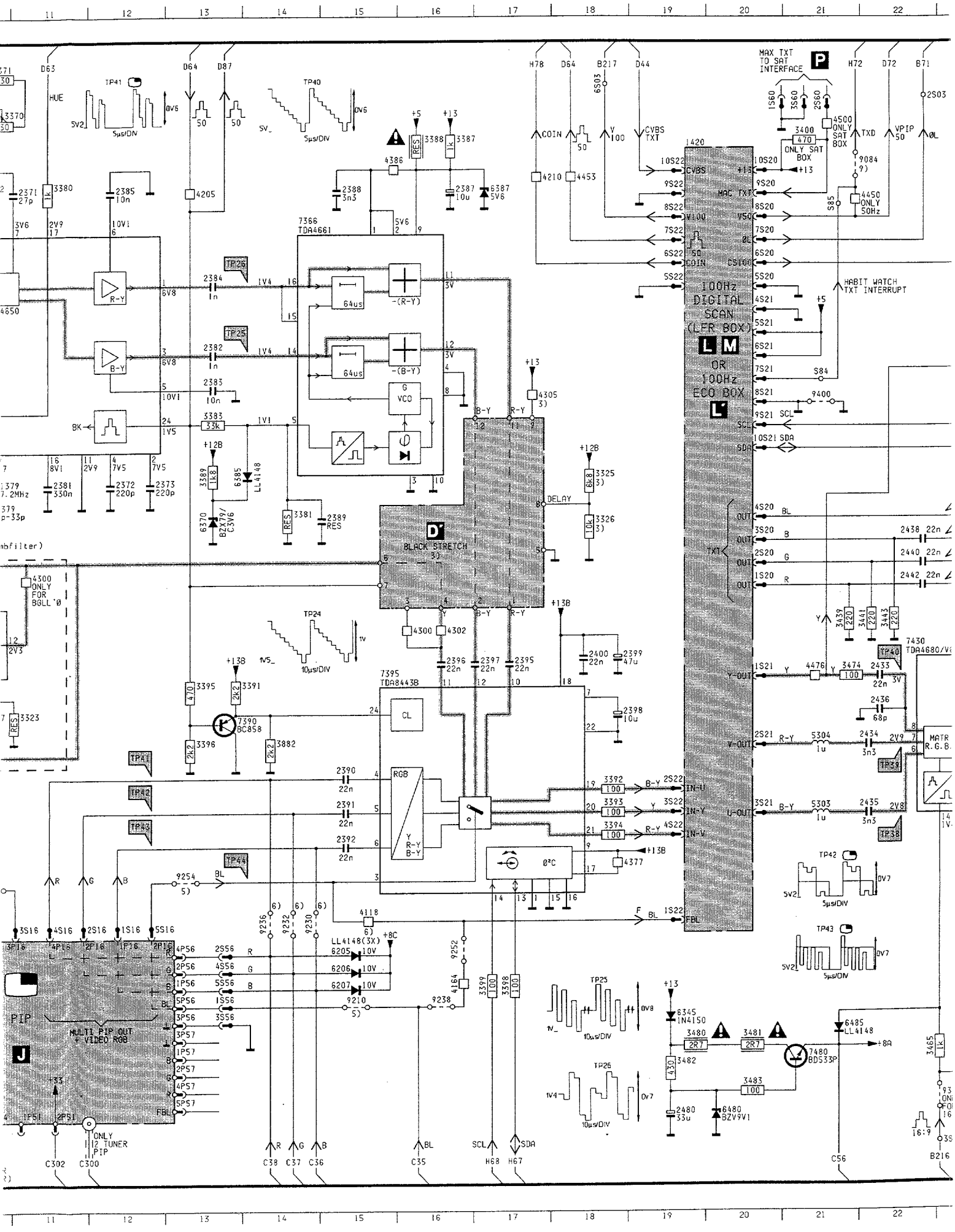
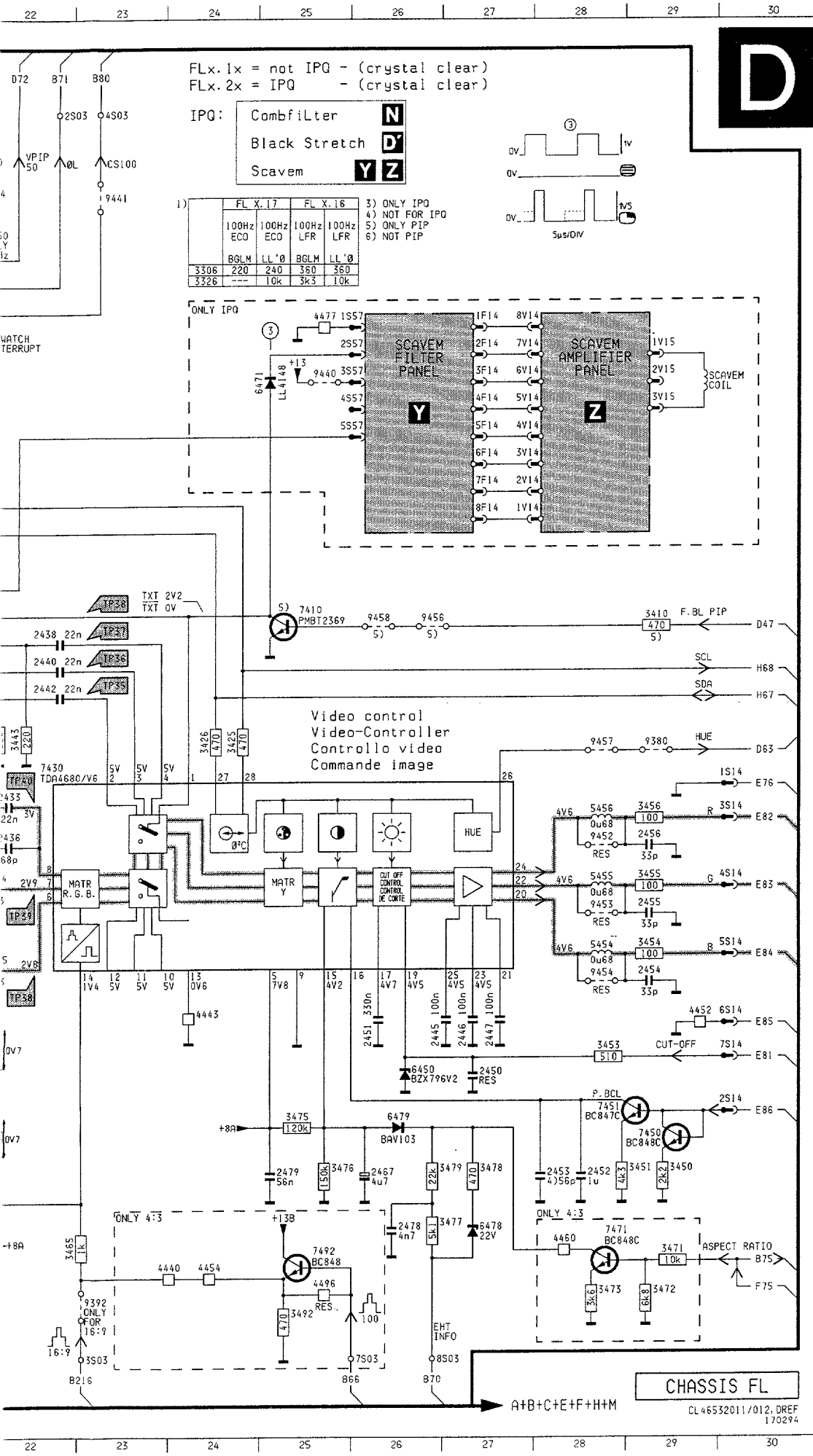

D
Chrominance processing
Chrominanz-Prozessor
Processore della crominanza
Traitement chrominance
+12B
4346
2k2
3342
C45 CVBS/C
4375
9375
2338
47P
390
3338
15k
3339
27k
3344
6342 BA682
6343 BA682
5345 4u5
2343 470p
2342 1)27p
2345 1n2
2344 680p
5346 26u
TP23
2367 10n
2347 1n
120
3350
3k3
3353
2353 10n
PAL 0V NTSC/SECAM 0V4
NTSC 0V PAL/SECAM 10V4
7350 1)BC848B
3351 4k7
NTSC 3.58
NTSC 0V7 PAL/SECAM 0V
NTSC 6V PAL/SECAM 0V
7338 BC848B
3336 4k7
PAL
PAL 0V7 NTSC/SECAM 0V
PAL 6V NTSC/SECAM 0V
9375
9169
3346 1k
7340 BF840
330
3365
9318
N
COMB FILTER
+13
+5
4325
CVBS
9255 9257 9441
4333
B95
COMB ON/OFF
9317 9325 9326
C90
NOT FOR IPQ
3300
3337
7305 BC858B
2305 33p
2301 1n
3301
3305
100k
7314 BC848C
4420
3303 360
3306
1)
5305 26u
2306 47p
3304 100
3316 1k1
4319
4330
1)
TXT
9208
4332
3)
D92
CVBS/Y
C44
SVHS
C48
3310 4k7
7311 BC848B
3326 1)
3325 6k8
9317
3327 1k2
3323
2307 10p
2318 220n
7324 TDA4568
CLAMP
845nS
180nS
2324 22n
4302
4300 ONLY FOR BGLL'0
TP24
ONLY IPQ
3321 510
5331 33u
4319
3302 330
3308 330
3307 330
2312 22n
5330 26u
5332 26u
2314
7333 BC848C
6331 BZX79/ C3V9
3309 100
7335 BC858C
2307 47p
2313 56p
7330 BC848C
3316 10k
7336 BC848C
3354 10k
3319 10k
7332 BC848C
4320
2k2
3349
4k7
3348
3320
TP35
TP36
TP39
5µs/DIV
A62
3397 24
+13B
2R7
3360
3361 1k
7360 BC817
2360 33u
2361 330u
9381 5)
9382 5)
4362
9182
9372
9387 5)
9234 5)
1390
PIP
J
MULTI PIP OUT + VIDEO RGB
SCL
SDA
VPIP
CVBS PIP
F.BL PIP
H68
H67
D87
D72
C46
D47
C301 (ONLY FOR 800 TUNER)
C302
C300
ONLY 12 TUNER PIP
TP41
TP42
TP43
TP44
HUE
5370 7u
3371 430
3370 330
2365 180p
2366 22n
2354 RES
2869 27p
3369
3372
2371 27p
3380
2385 10n
7365 TDA4650
TDA4510
TDA4650
R-Y
B-Y
BK
TV IDENT
G ..MHz
2368 10n
2374 22n
2375 22n
2376 22n
2377 330n
1380 8.8MHz
2380 2p-33p
1379 7.2MHz
2379 2p-33p
2381 330n
2372 220p
2378 100n
3377 6k8
4331 (not for Combfilter)

Traitement vidéo





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	1380	F10	3371	A10	7333	K 6
	1390	L 9	3372	B10	7335	K 4
	1420	B19	3377	G 9	7336	L 5
A	2301	H 5	3380	B11	7338	F 4
	2305	H 7	3381	G14	7340	G 2
	2306	I 8	3383	E13	7350	E 5
	2307	I 8	3387	B16	7360	N 4
	2307	K 5	3388	B16	7365	C 8
	2312	K 3	3389	F13	7366	C14
	2313	K 6	3391	I13	7390	I13
	2314	K 6	3392	J18	7395	I15
B	2318	H 8	3393	J18	7410	G25
	2324	H 9	3394	K18	7430	H22
	2338	B 4	3395	I13	7450	L29
	2342	C 6	3396	J13	7451	L28
	2343	C 5	3397	M 4	7471	M28
	2344	C 6	3398	M17	7480	N21
	2345	C 7	3399	M17	7492	N25
	2347	D 7	3400	B21	9084	B21
C	2353	E 7	3410	G29	9169	G 5
	2354	C 8	3425	H24	9182	N 7
	2360	O 3	3426	H24	9208	H 2
	2361	O 3	3439	H21	9210	M15
	2365	B10	3441	H22	9230	L14
	2366	C 8	3443	H22	9232	L14
	2367	D 7	3450	M29	9234	K10
D	2368	F 8	3451	M29	9236	L14
	2371	C11	3453	K28	9238	M16
	2372	F12	3454	J29	9252	L16
	2373	F12	3455	J29	9254	K13
	2375	F 8	3456	I29	9255	E 2
	2376	F 9	3465	N22	9317	E 2
	2377	G 9	3471	N29	9317	I10
	2378	G 8	3472	N29	9318	G 2
E	2378	G 9	3473	N28	9372	N 8
	2379	G10	3474	I21	9375	B 3
	2380	G10	3475	L25	9375	F 5
	2381	F11	3476	M25	9380	H29
	2382	E13	3477	M26	9381	N 5
	2383	E13	3478	M27	9382	N 5
	2384	D13	3479	M26	9387	N 8
F	2385	C12	3480	M19	9392	N23
	2387	C16	3481	M20	9400	E21
	2388	C15	3482	N19	9440	D25
	2389	G15	3483	N20	9441	B23
	2390	J15	3492	N25	9452	I28
	2391	J15	3882	J14	9453	J28
	2392	K15	4118	L15	9454	K28
	2395	I17	4164	M16	9456	G26
G	2396	I16	4205	C13	9457	H28
	2397	I17	4210	B17	9458	G26
	2398	I18	4300	H11		
	2399	I18	4300	H16		
	2400	I18	4302	H10		
	2433	I22	4302	H16		
	2434	J22	4305	E17		
H	2435	J22	4319	I 4		
	2436	I22	4319	J 4		
	2438	G22	4320	K 7		
	2440	G22	4325	C 2		
	2442	H22	4330	I 3		
	2445	K26	4331	G10		
	2446	K27	4332	H 2		
	2447	K27	4333	E 2		
I	2450	L27	4346	A 5		
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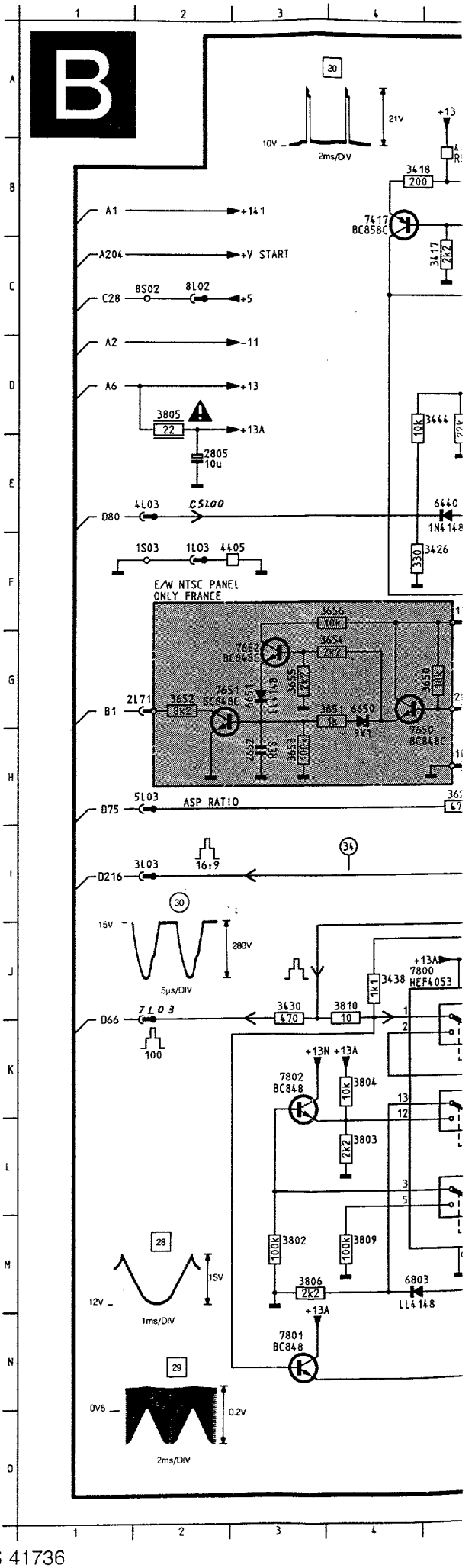
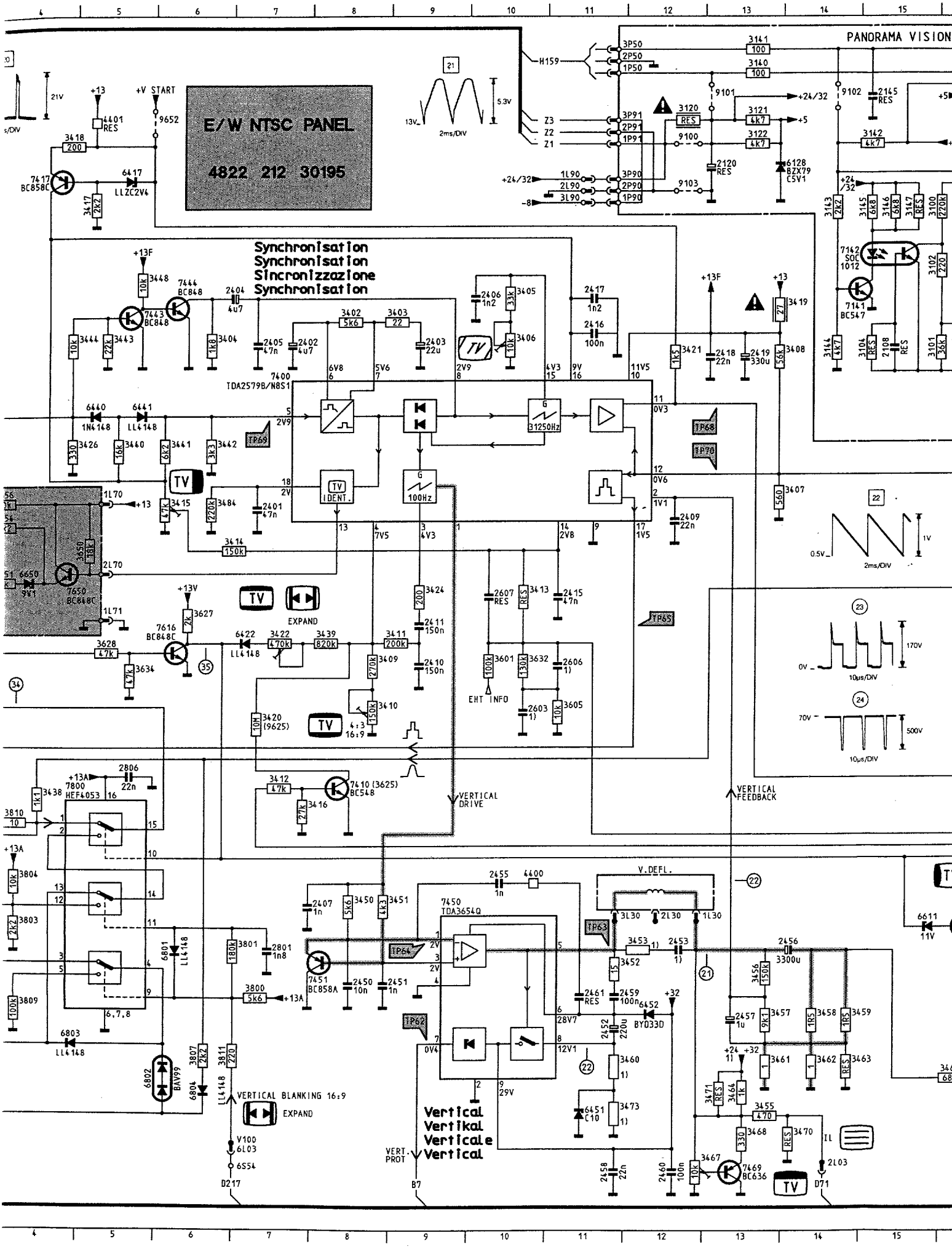
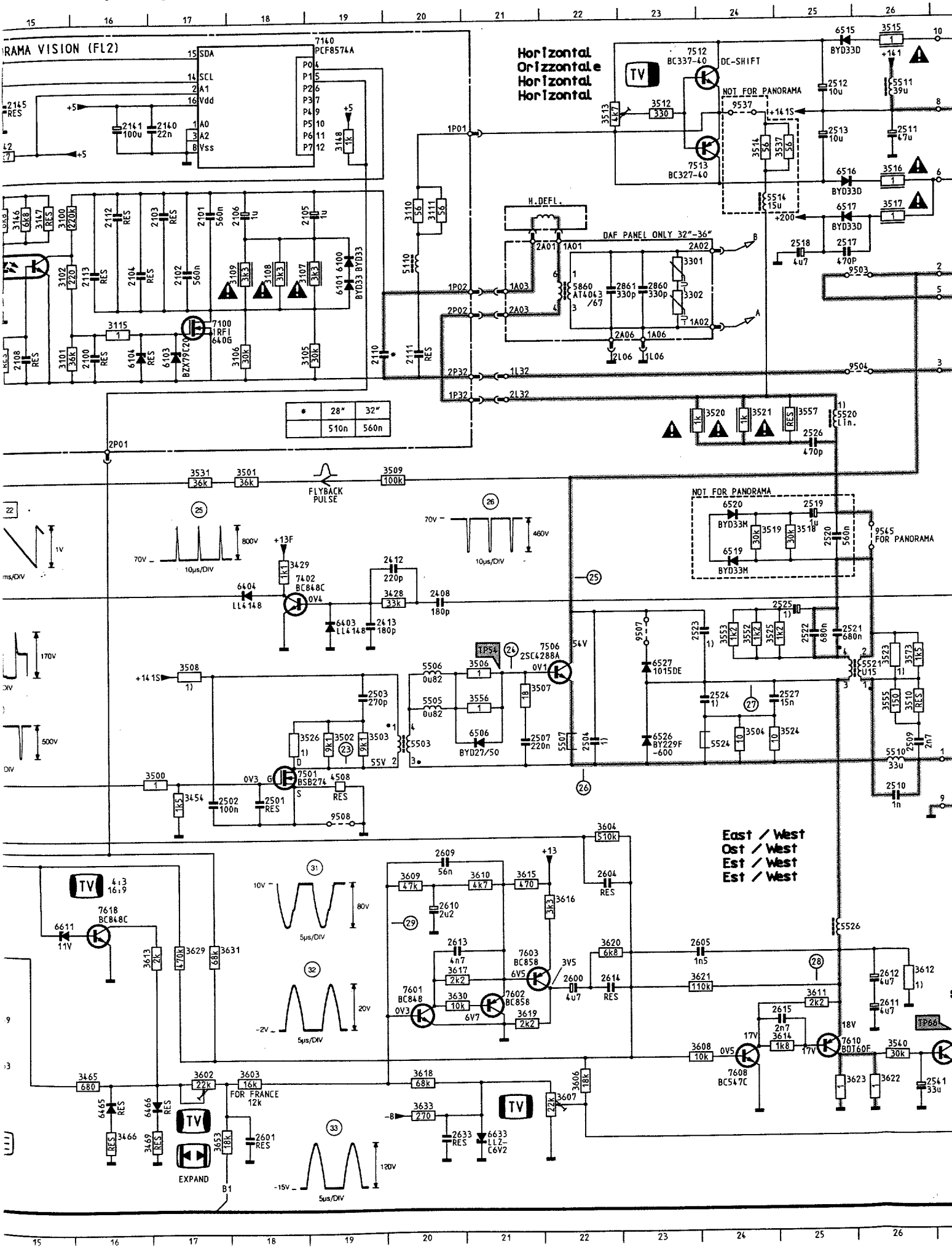
	2452	M28	4375	B 3		
	2453	M28	4377	K18		
	2454	K29	4386	B15		
	2455	J29	4420	H 5		
	2456	I29	4440	N24		
J	2467	M26	4443	K24		
	2478	M26	4450	C22		
	2479	M25	4452	K29		
	2480	N19	4453	B18		
	2869	C 9	4454	N24		
	3300	G 6	4460	N28		
	3301	H 6	4476	I21		
	3302	J 4	4477	D25		
K	3303	I 5	4496	N25		
	3304	I 6	4500	B21		
	3305	H 6	5303	K21		
	3306	I 6	5304	J21		
	3307	K 4	5305	I 7		
	3308	J 5	5330	K 5		
	3309	K 4	5331	J 5		
	3310	I 7	5332	K 6		
L	3316	I 4	5345	B 7		
	3316	L 6	5346	D 5		
	3319	L 7	5370	A10		
	3320	K 8	5454	J28		
	3321	J 5	5455	J28		
	3323	I11	5458	I28		
	3325	F18	6205	L15		
M	3325	I 8	6206	M15		
	3326	G18	6207	M15		
	3326	I 8	6331	K 7		
	3327	I10	6342	B 6		
	3336	F 5	6343	C 6		
	3337	G 6	6345	M19		
	3338	B 4	6370	G13		
N	3339	B 5	6385	F13		
	3342	B 5	6387	C17		
	3344	B 5	6450	L26		
	3346	F 2	6471	D25		
	3348	K 7	6478	M27		
	3349	J 7	6479	L26		
	3350	D 5	6480	N20		
	3351	E 6	6485	M21		
	3353	D 7	7305	H 6		
O	3354	L 6	7311	J 8		
	3360	N 4	7311	L 8		
	3361	N 3	7314	H 5		
	3365	G 1	7324	H 9		
	3369	B10	7330	L 5		

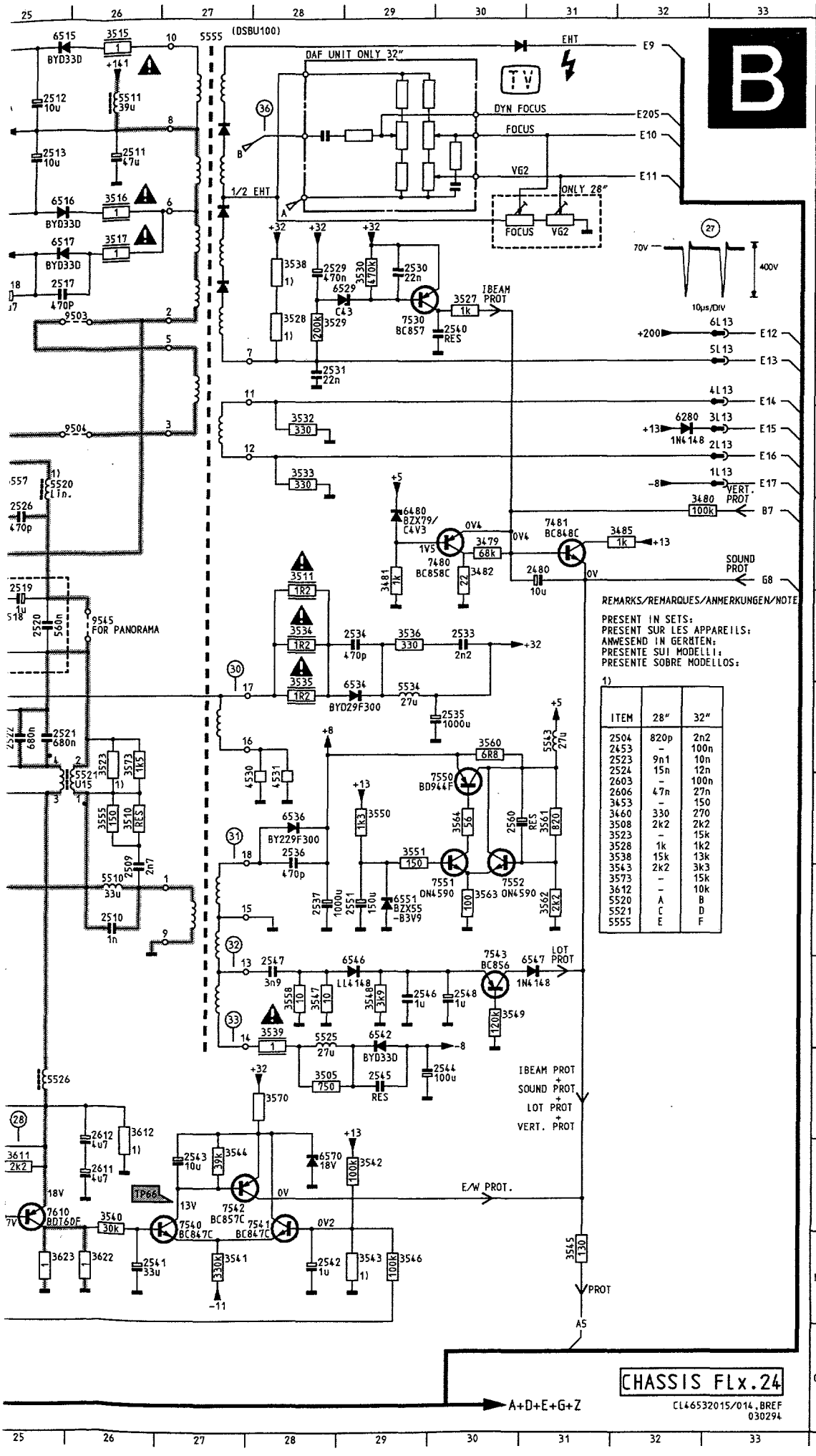
Synchro


B
20
10V
21V
2ms/DIV
+13
3418
200
7417
BC858C
3417
2K2
A1
+141
A204
+V START
C28
8S02
8L02
+5
A2
-11
A6
+13
3805
22
+13A
2805
10u
10k
3444
D80
4L03
CS100
6440
1N4148
1S03
1L03
4405
330
3426
E/W NTSC PANEL
ONLY FRANCE
3656
10K
7652
BC848C
3654
4K2
3655
2K2
3650
8K2
2L71
B1
3652
8K2
7651
BC848C
6651
LL4148
3651
1k
6650
9V1
7650
BC848C
2652
22n
3653
100K
D75
5L03
ASP RATIO
3L03
16:9
34
D216
30
15V
280V
5µs/DIV
+13A
7800
HEF4053
1K1
3438
3430
470
3810
10
D66
7L03
100
+13N
+13A
7802
BC848
10k
3804
2K2
3803
28
15V
12V
1ms/DIV
100k
3802
100k
3809
3806
2K2
6803
LL4148
+13A
7801
BC848
29
0V5
0.2V
2ms/DIV

Synchronization / Synchronisierung / Synchronisation




RAMA VISION (FL2)
7140 PCF8574A
SDA
SCL
A1
Vdd
A0
A2
Vss
P0
P1
P2
P3
P4
P5
P6
P7
Horizontal
Orizzontale
Horizontal
Horizontal
7512 BC337-40
DC-SHIFT
NOT FOR PANORAMA
7513 BC327-40
H.DEFL.
DAF PANEL ONLY 32"-36"
5860 AT4043 /67
7100 IRFI 640G
BZX79C20
BYD33
BYD33D
BYD33M
FLYBACK PULSE
7402 BC848C
LL4148
7506 2SC4288A
6527 1015DE
6526 BY229F -600
BYD27/50
7501 BSB274
FOR PANORAMA
East / West
Ost / West
Est / West
Est / West
7618 BC848C
7603 BC858
7601 BC848
7602 BC858
7610 BDT60F
7608 BC547C
FOR FRANCE 12k
EXPAND
TV
10µs/DIV
5µs/DIV



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	2102	C17	3115	D16	3540	M26	6506	I21
	2103	C17	3121	B13	3541	N27	6515	A25
A	2104	C16	3122	B13	3542	M29	6516	B25
	2105	C19	3140	A13	3543	N29	6517	C25
	2106	C18	3141	A13	3544	M27	6519	G24
	2108	D15	3142	B15	3545	N31	6520	F24
	2110	D19	3143	C14	3546	N29	6526	I23
	2111	D20	3144	D14	3547	K28	6527	I23
	2112	C16	3145	C15	3548	K29	6529	C29
	2113	C16	3146	C15	3549	K30	6534	H29
B	2120	B13	3147	C15	3550	I29	6536	I28
	2140	B17	3148	B19	3551	I29	6542	K29
	2141	B16	3301	C23	3552	H24	6546	K29
	2145	A15	3302	D23	3553	H24	6547	K31
	2401	G 7	3402	D 8	3555	I26	6551	J29
	2402	D 7	3403	D 9	3556	I21	6570	M28
	2403	D 9	3404	D 6	3557	E25	6611	L15
	2404	D 7	3405	D10	3558	K28	6633	N21
C	2405	D 7	3406	D10	3560	H30	6650	G 4
	2406	D10	3407	F14	3561	I31	6651	G 3
	2407	L 8	3408	D14	3562	J31	6801	L 6
	2408	H20	3409	H 8	3563	J30	6802	N 5
	2409	G12	3410	I 8	3564	I30	6803	M 4
	2410	I 9	3411	H 9	3570	L28	6804	N 6
	2411	H 9	3412	J 7	3573	H26	7100	D17
	2412	G20	3413	G10	3601	H10	7140	A19
D	2413	H19	3414	G 7	3602	N17	7141	D15
	2415	H11	3415	F 6	3603	N18	7142	C14
	2416	D11	3416	J 7	3604	K22	7400	E 7
	2417	D11	3417	C 5	3605	I11	7402	G18
	2418	E13	3418	B 4	3606	N22	7410	J 8
	2419	E13	3419	D14	3607	N22	7417	B 4
	2450	M 8	3420	I 7	3608	M23	7443	D 5
E	2451	M 8	3421	D12	3609	K20	7444	D 6
	2452	M11	3422	H 7	3610	K21	7450	L 9
	2453	L12	3424	G 9	3611	M25	7451	L 8
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	2456	L14	3428	H20	3613	L16	7480	F30
	2457	M13	3429	G18	3614	M25	7481	F31
	2458	O11	3430	J 3	3615	K21	7501	J18
F	2459	M11	3438	J 4	3616	K22	7506	H22
	2460	O12	3439	H 8	3617	L20	7512	A24
	2461	M11	3440	F 5	3618	N20	7513	B24
	2480	F31	3441	F 6	3619	M21	7530	D29
	2501	J18	3442	F 6	3620	L22	7540	M27
	2502	J17	3443	D 5	3621	M23	7541	M28
	2503	I19	3444	D 5	3622	N26	7542	M27
	2504	I22	3448	D 5	3623	N25	7543	K30
G	2507	I21	3450	K 8	3625	J 8	7550	I30
	2509	J26	3451	K 9	3627	H 6	7551	J30
	2510	J26	3452	L11	3628	H 5	7552	J30
	2511	B26	3453	L12	3629	L17	7601	M20
	2512	A25	3454	J17	3630	M20	7602	M21
	2513	B25	3455	N13	3631	L17	7603	L21
	2517	C25	3456	L13	3632	H10	7608	N24
H	2518	C25	3457	M13	3633	N20	7610	M25
	2519	G25	3458	M14	3634	H 5	7616	H 6
	2520	G25	3459	M14	3650	G 5	7618	L16
	2521	H25	3460	M11	3651	G 4	7650	G 4
	2522	H25	3461	M13	3652	G 2	7651	G 3
	2523	H24	3462	M14	3653	H 3	7652	G 3
	2524	I24	3463	M14	3653	O17	7800	J 4
	2525	H25	3464	N13	3654	G 4	7801	N 3
I	2526	F25	3465	N16	3655	G 3	7802	K 3
	2527	I25	3466	N16	3656	F 4	9100	B12
	2529	C28	3467	O12	3800	M 7	9101	A13
	2530	C29	3468	N13	3801	L 7	9102	A14
	2531	D28	3469	O16	3802	M 3	9103	B12
	2533	G30	3470	N14	3803	L 4	9503	D26
	2534	G29	3471	N13	3804	K 4	9504	E26
J	2535	H30	3473	N11	3805	D 2	9507	H23
	2536	I28	3479	F30	3806	M 3	9508	J19
	2537	J28	3480	F32	3807	M 6	9537	A24
	2540	D30	3481	F29	3809	M 4	9545	G26
	2541	N26	3482	F30	3810	J 4	9625	I 7
	2542	N28	3484	F 6	3811	M 6	9652	B 6
	2543	M27	3485	F32	4400	K10		
	2544	L30	3500	J17	4401	B 5		
K	2545	L29	3501	F18	4405	F 3		
	2546	K29	3502	I19	4508	J19		
	2547	K28	3503	I19	4530	I28		
	2548	K30	3504	I24	4531	I28		
	2551	J29	3505	L28	5110	C20		
	2560	I30	3506	H21	5503	I20		
	2600	M22	3507	I21	5505	I20		
L	2601	N18	3508	H17	5506	I20		
	2603	I10	3509	F20	5507	I22		
	2604	K22	3510	I26	5510	J26		
	2605	L23	3511	F28	5511	A26		
	2606	I11	3512	A23	5514	C24		
	2607	H10	3513	B22	5520	E25		
	2609	K20	3514	B24	5521	I26		
	2610	L20	3515	A26	5524	I24		
M	2611	M26	3516	B26	5525	K28		
	2612	M26	3517	C26	5526	L25		
	2613	L20	3518	G25	5534	H29		
	2614	M22	3519	G24	5543	H31		
	2615	M25	3520	E24	5555	A27		
	2633	N20	3521	E24	5860	D22		
	2652	H 3	3523	H26	6100	C19		
	2801	L 7	3524	I25	6101	D19		
N	2805	E 2	3525	H24	6103	D17		
	2806	J 5	3526	I18	6104	D16		
	2860	D23	3527	C30	6128	B14		
	2861	D22	3528	C28	6280	E32		
	3100	C15	3529	D28	6403	H19		
	3101	D15	3530	C29	6404	G18		
	3102	C15	3531	F17	6417	B 5		
	3104	D15	3532	E28	6422	H 7		
O	3105	D19	3533	E28	6440	E 5		
	3106	D18	3534	G28	6441	E 5		
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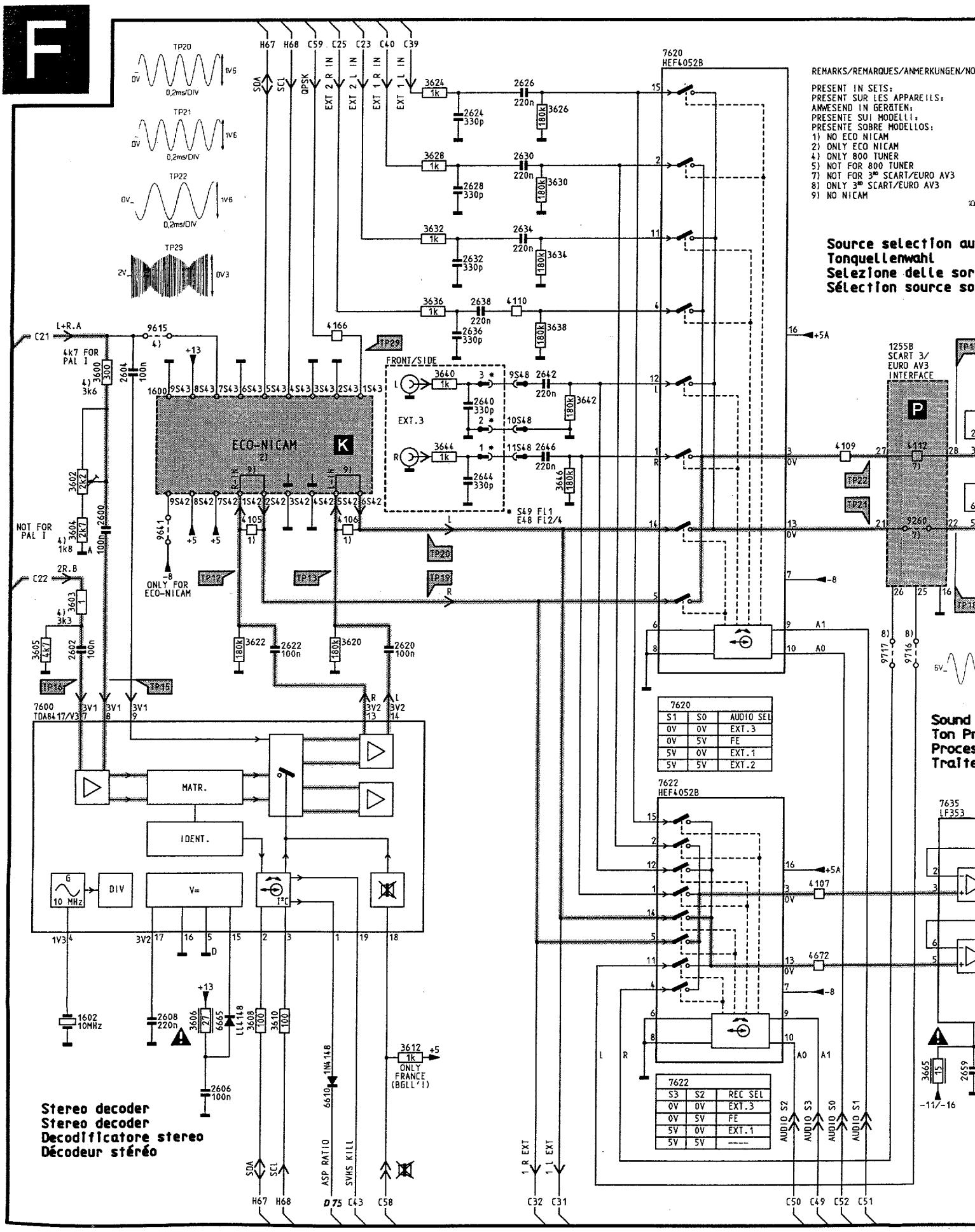
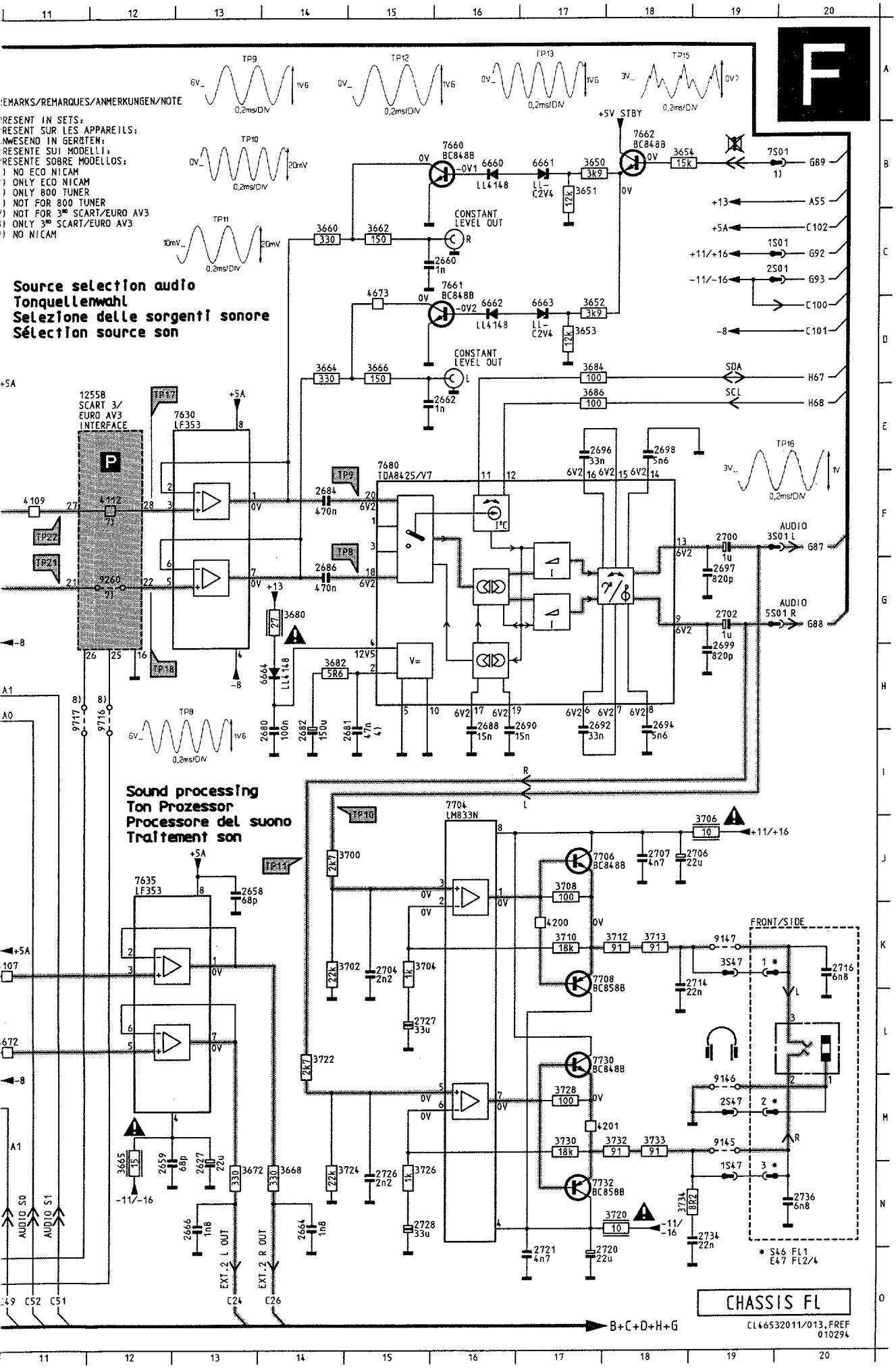

F
TP20
TP21
TP22
TP29
0,2ms/DIV
H67 H68 C59 C25 C23 C40 C39
SDA SCL QPSK EXT 2 R IN EXT 2 L IN EXT 1 R IN EXT 1 L IN
7620 HEF4052B
REMARKS/REMARQUES/ANMERKUNGEN/NO
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) NO ECO NICAM
2) ONLY ECO NICAM
4) ONLY 800 TUNER
5) NOT FOR 800 TUNER
7) NOT FOR 3RD SCART/EURO AV3
8) ONLY 3RD SCART/EURO AV3
9) NO NICAM
Source selection au
Tonquellenwahl
Selezione delle sor
Sélection source so
FRONT/SIDE
EXT.3
ECO-NICAM
K
1255B SCART 3/ EURO AV3 INTERFACE
P
S49 FL1 E48 FL2/4
NOT FOR PAL I
ONLY FOR ECO-NICAM
7600 TDA8417/V3
MATR.
IDENT.
DIV
V=
I²C
7620
S1 S0 AUDIO SEL
0V 0V EXT.3
0V 5V FE
5V 0V EXT.1
5V 5V EXT.2
7622 HEF4052B
7622
S3 S2 REC SEL
0V 0V EXT.3
0V 5V FE
5V 0V EXT.1
5V 5V ----
7635 LF353
Sound
Ton Pr
Proces
Traite
Stereo decoder
Stereo decoder
Decodificatore stereo
Décodeur stéréo
ONLY FRANCE (BGLL'I)
ASP RATIO
SVHS KILL
1 R EXT
1 L EXT
AUDIO S2
AUDIO S3
AUDIO S0
AUDIO S1
C32 C31
C50 C49 C52 C51
D75 C43 C58

Traitement audio



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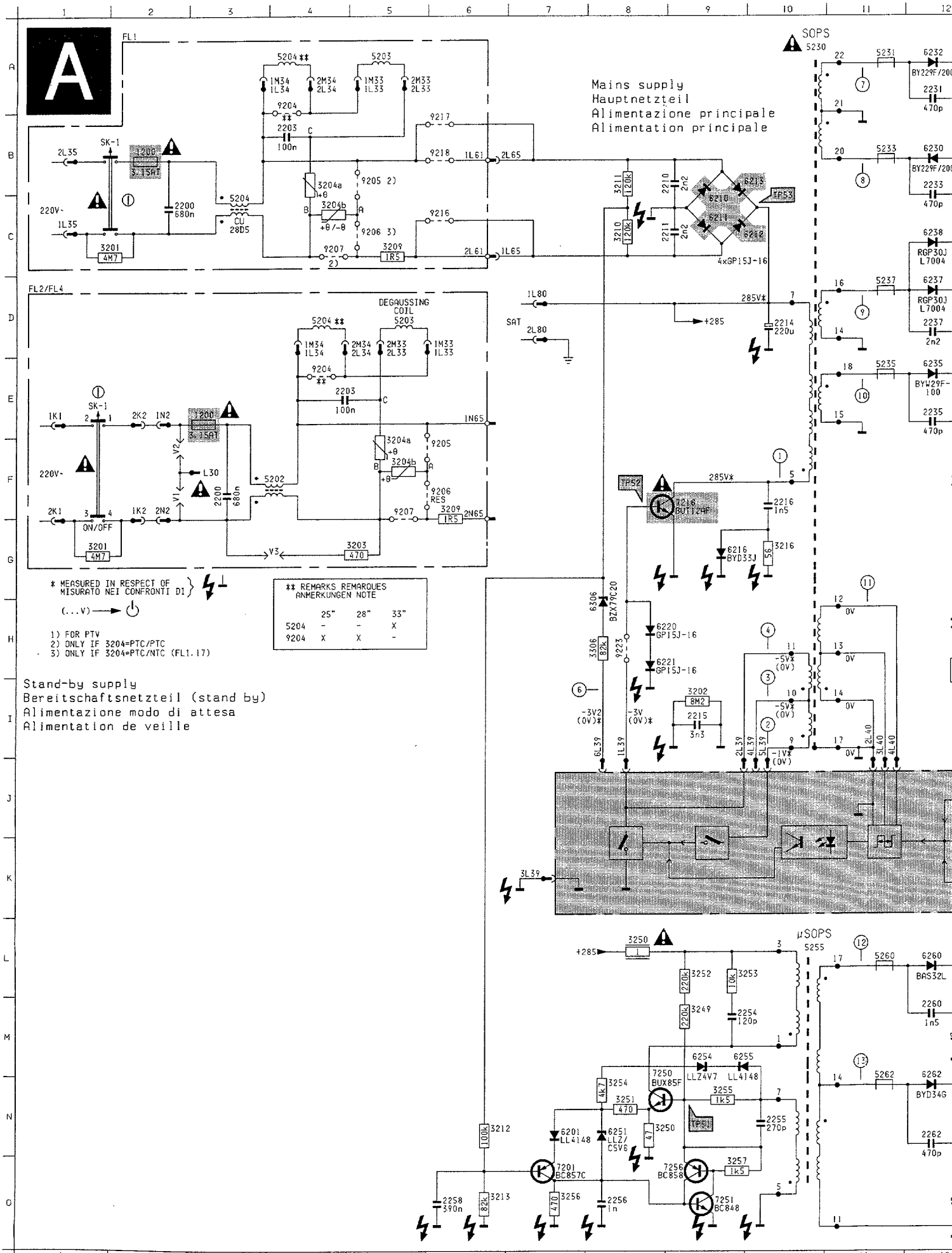
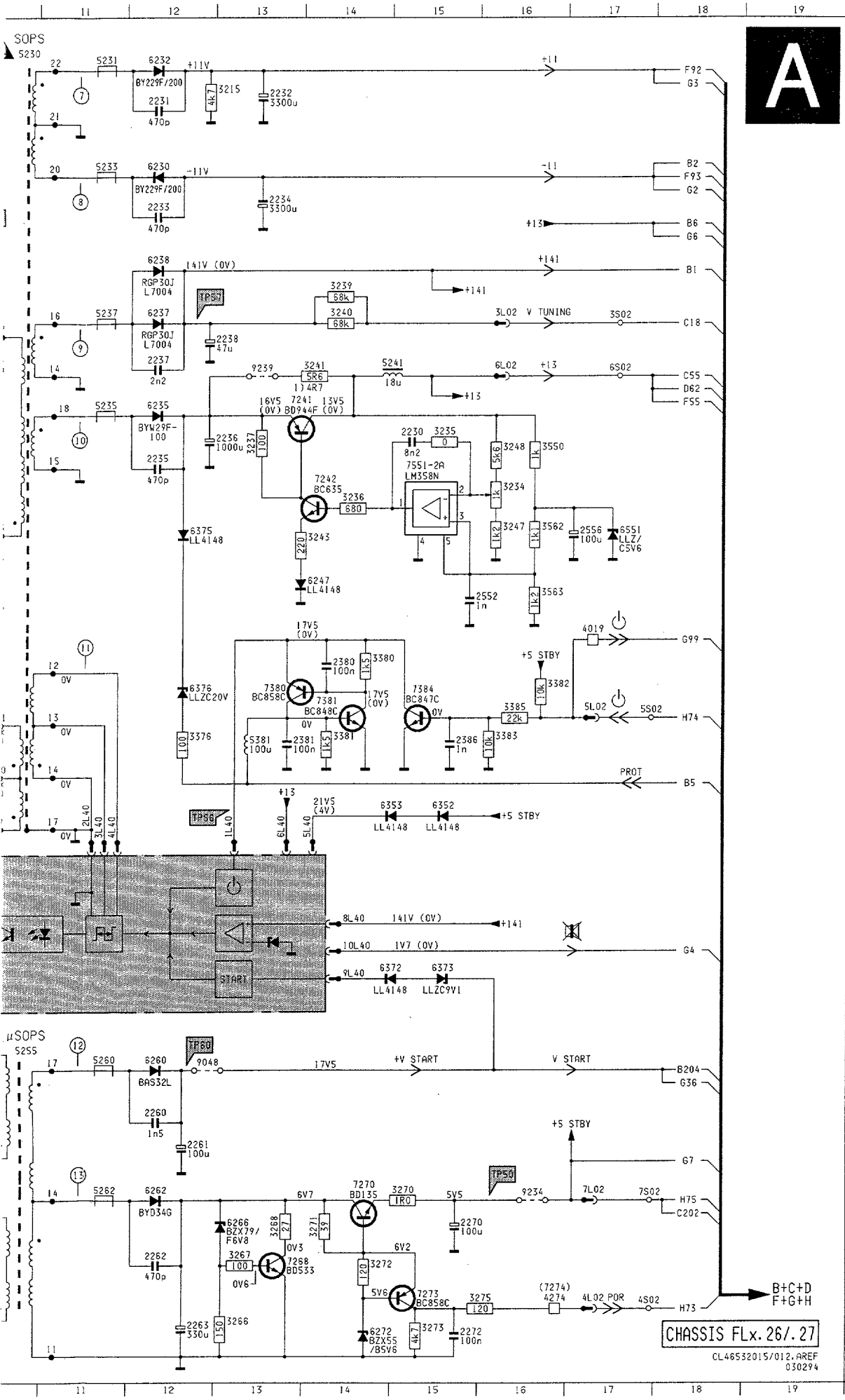
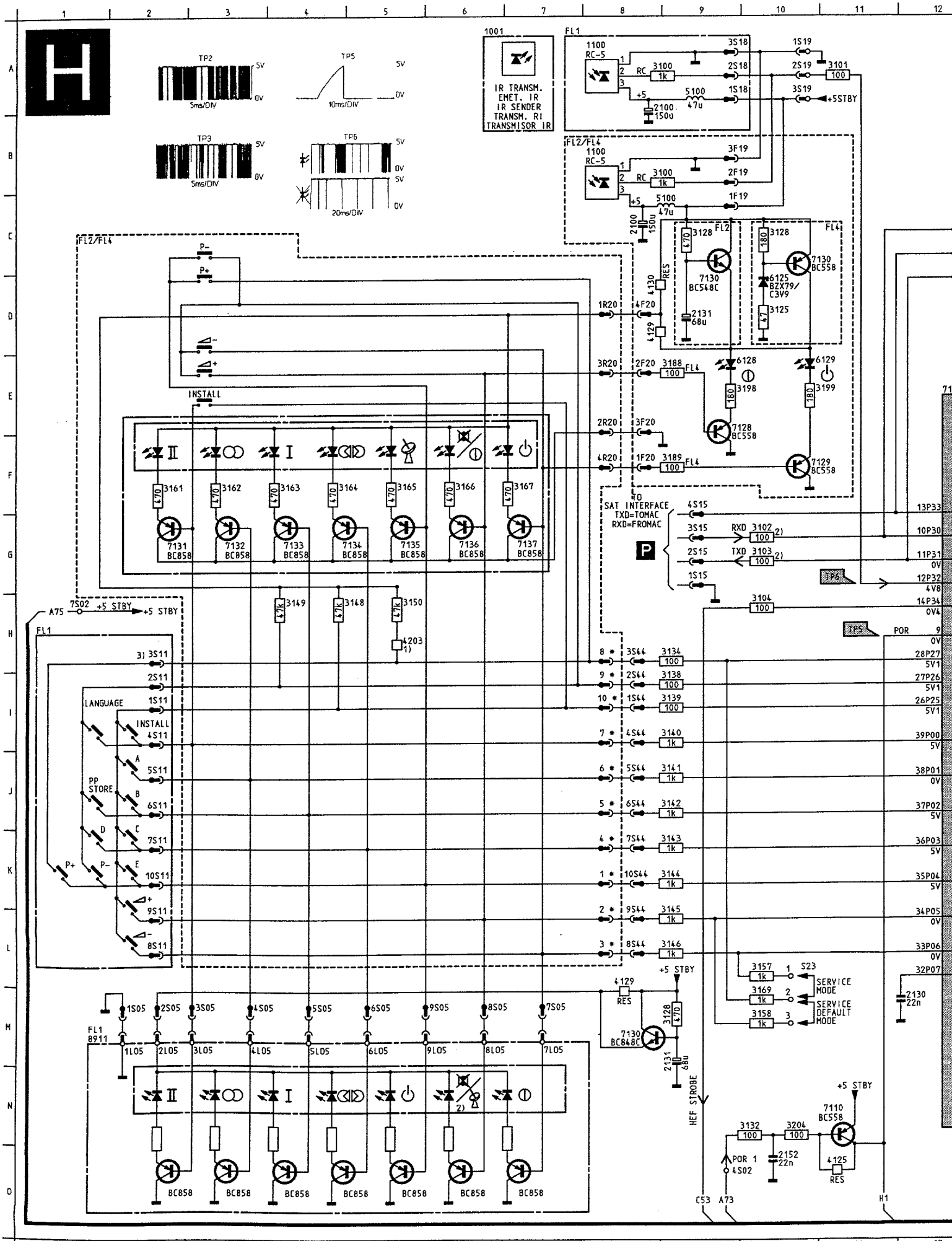
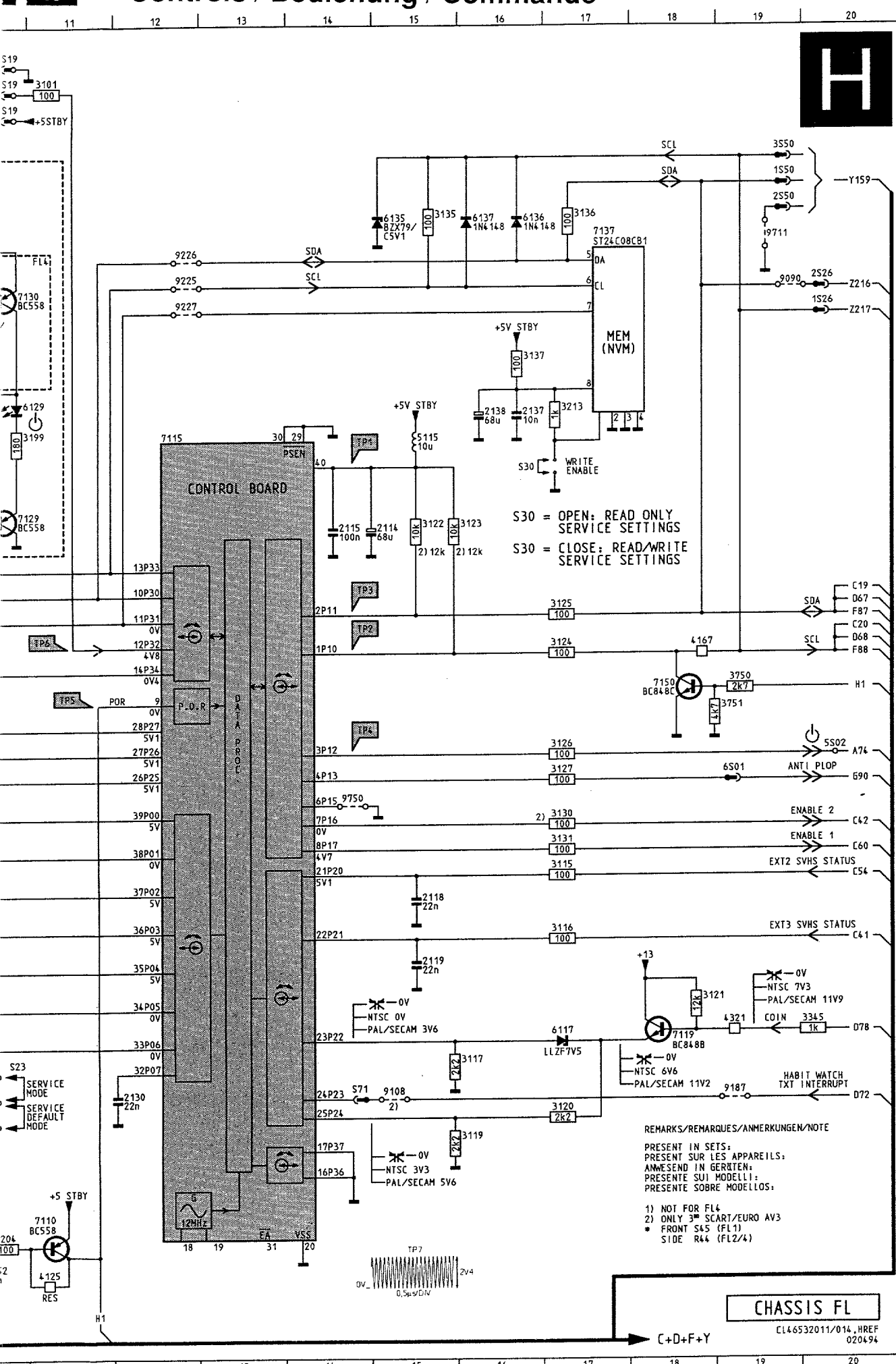
	1600	E 2	4112	F12
	1602	M 1	4166	D 5
	2600	G 2	4200	K17
A	2602	H 1	4201	M17
	2604	E 2	4672	L11
	2606	N 3	4673	C15
	2608	M 2	6610	N 5
	2620	H 5	6660	B16
	2622	H 4	6661	B17
	2624	B 6	6662	D16
	2626	A 7	6663	D17
B	2627	M13	6664	H14
	2628	C 6	6665	M 3
	2630	B 7	7600	I 1
	2632	D 6	7620	A 9
	2634	C 7	7622	J 9
	2636	D 6	7630	E12
	2638	D 6	7635	J12
	2640	E 6	7660	B16
C	2642	E 7	7661	C16
	2644	F 6	7662	B18
	2646	F 7	7680	E15
	2658	J13	7704	I16
	2659	M12	7706	J17
	2660	C16	7708	K17
	2662	E16	7730	L17
D	2664	N14	7732	N17
	2666	N13	9145	M19
	2680	H14	9146	M19
	2681	H15	9147	K19
	2682	H14	9260	G12
	2684	F14	9615	D 2
	2686	G14	9641	G 2
	2688	H16	9716	H12
E	2690	H16	9717	H11
	2692	H17		
	2694	H18		
	2696	E17		
	2697	G19		
	2698	E18		
	2699	H19		
	2700	F19		
F	2702	G19		
	2704	K15		
	2706	J18		
	2707	J18		
	2714	K18		
	2716	K20		
	2720	O17		
G	2721	O17		
	2726	N15		
	2727	L15		
	2728	N15		
	2734	N19		
	2736	N20		
	3600	E 2		
H	3602	F 1		
	3603	H 1		
	3604	G 1		
	3605	H 1		
	3606	M 3		
	3608	M 4		
	3610	M 4		
	3612	M 6		
I	3620	H 5		
	3622	H 3		
	3624	A 6		
	3626	B 7		
	3628	B 6		
	3630	C 7		
	3632	C 6		
J	3634	C 7		
	3636	D 6		
	3638	D 7		
	3640	E 6		
	3642	E 8		
	3644	F 6		
	3646	F 7		
	3650	B17		
K	3651	B17		
	3652	D17		
	3653	D17		
	3654	B18		
	3660	C14		
	3662	C15		
	3664	D14		
L	3665	M12		
	3666	D15		
	3668	N14		
	3672	N13		
	3680	G14		
	3682	H14		
	3684	D17		
	3686	E17		
M	3700	J14		
	3702	K14		
	3704	K15		
	3706	J19		
	3708	J17		
	3710	K17		
	3712	K18		
	3713	K18		
N	3720	N18		
	3722	L14		
	3724	N14		
	3726	N15		
	3728	M17		
	3730	M17		
	3732	M18		
	3733	M18		
O	3734	N18		
	4105	G 4		
	4106	G 5		
	4107	K11		
	4109	F11		

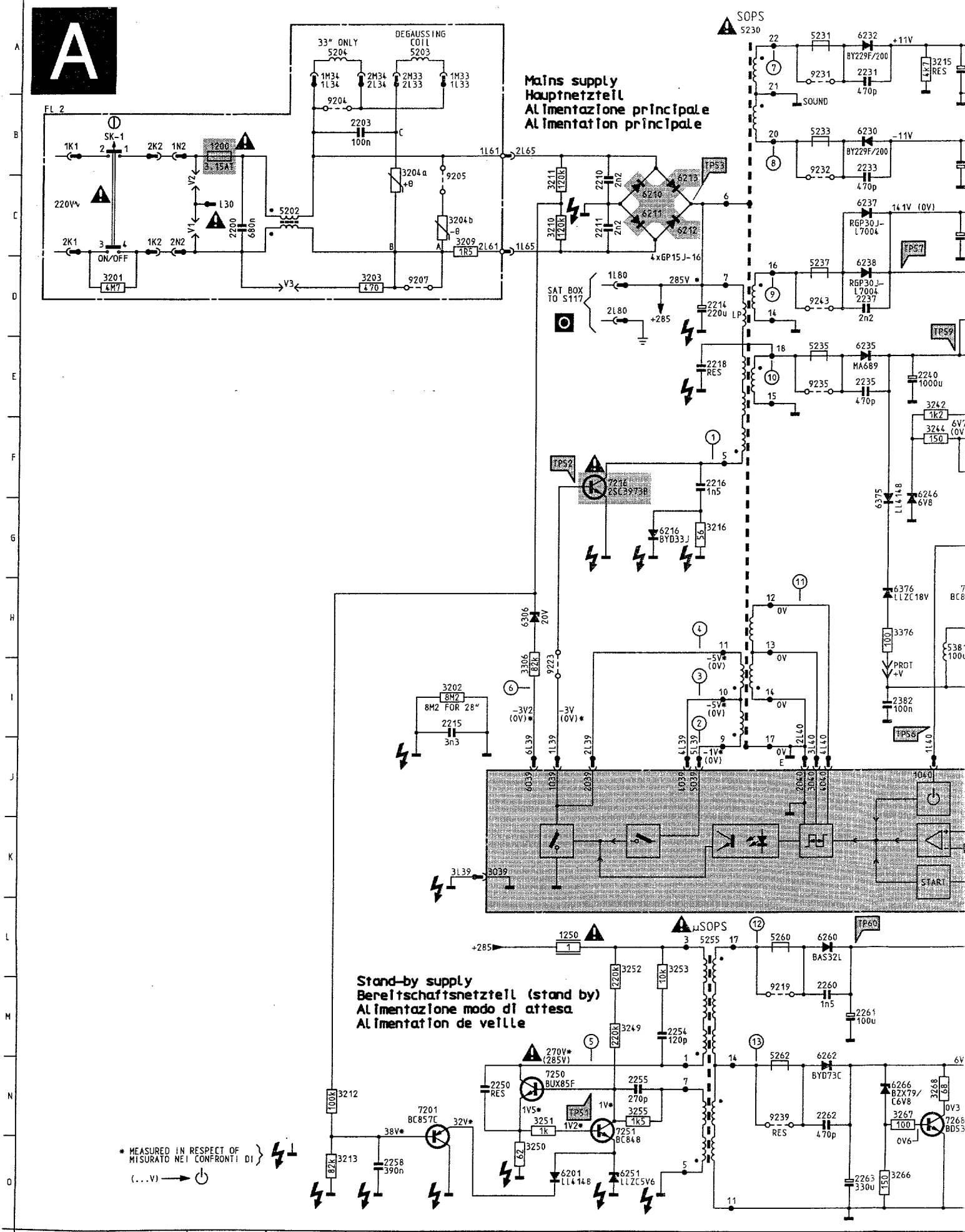

A
FL1
Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale
SOPS
5230
FL2/FL4
DEGAUSSING COIL
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille
* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI
(...V)
1) FOR PTV
2) ONLY IF 3204=PTC/PTC
3) ONLY IF 3204=PTC/NTC (FL1.17)
** REMARKS REMARQUES
ANMERKUNGEN NOTE
25" 28" 33"
5204 - - X
9204 X X -
μSOPS
5255
4xGP15J-16
BZX79C20
BUT12AF
BYD33J
BY229F/200
RGP30J L7004
BY429F-100
BAS32L
BYD34G
LL4148
LLZ4V7
LLZ/C5V6
BUX85F
BC857C
BC858
BC848
ON/OFF
SAT
220V~
285V*
+285
-5V*
-3V
-1V*
0V



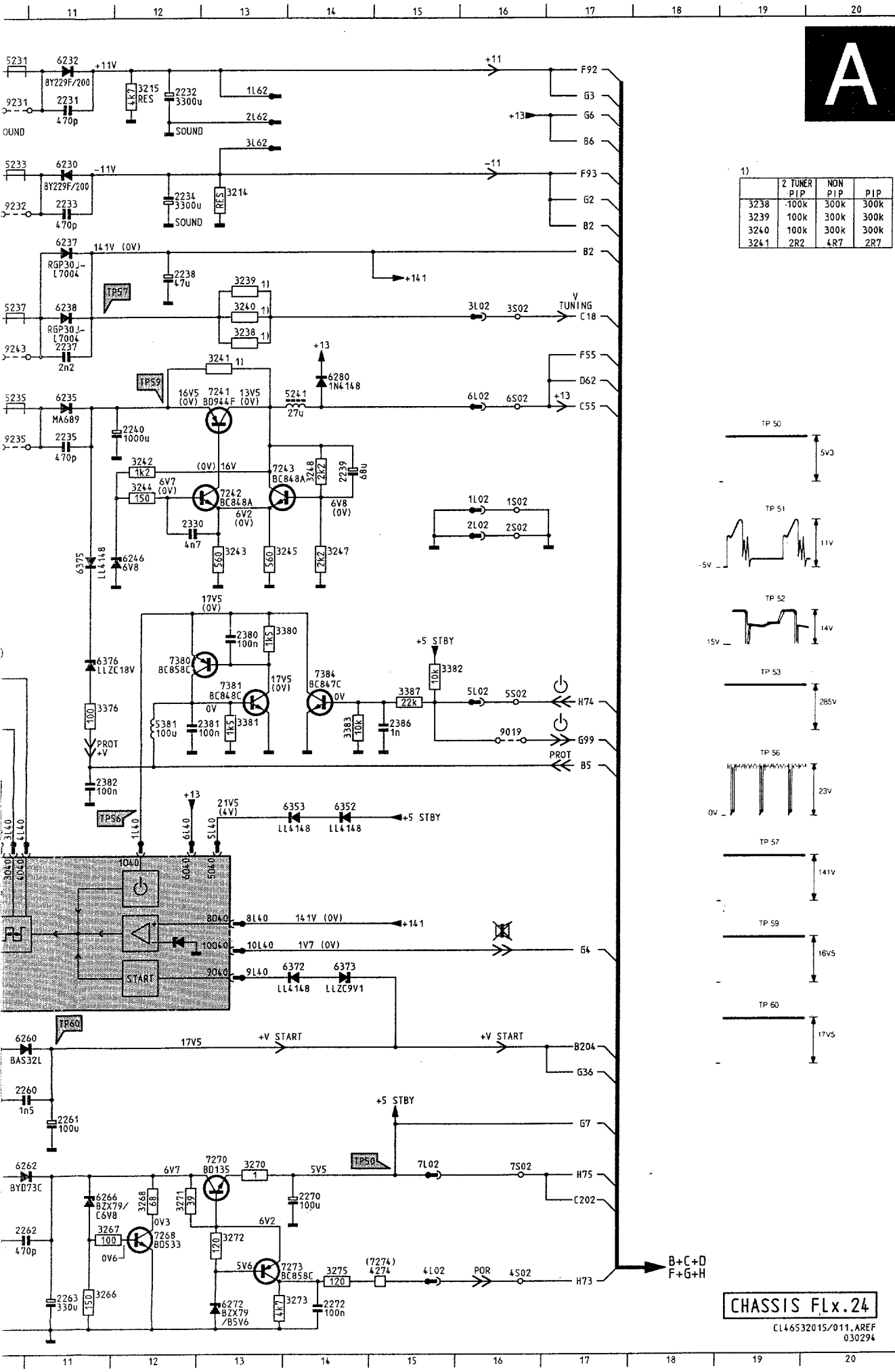
	1200	B 2	6232	A12
	1200	E 3	6235	E12
	2200	C 2	6237	D12
	2200	F 3	6238	C12
A	2203	B 4	6247	G14
	2203	E 4	6251	N 8
	2210	B 9	6254	M 9
	2211	C 9	6255	M 9
	2214	D10	6260	L12
	2215	I 9	6262	N12
	2216	F10	6266	N13
	2230	E15	6272	O14
B	2231	A12	6306	H 8
	2232	A13	6352	I15
	2233	B12	6353	I14
	2234	B13	6372	K14
	2235	E12	6373	K15
	2236	E12	6375	F12
	2237	D12	6376	H12
	2238	D12	6551	F17
C	2254	M 9	7201	O 7
	2255	N10	7216	F 9
	2256	O 8	7241	E13
	2258	O 6	7242	F14
	2260	M12	7250	N 8
	2261	M12	7251	O 9
	2262	N12	7256	O 9
D	2263	O12	7268	N13
	2270	N15	7270	M14
	2272	O15	7273	O15
	2380	H14	7274	O16
	2381	H13	7380	H13
	2386	H15	7381	H14
	2552	G15	7384	H15
	2556	F17	7551	E15
E	3201	C{{	9048	L12
	3201	G 1	9204	A 4
	3202	I 9	9204	E 4
	3203	G 5	9205	B 5
	3204	B 4	9205	F 6
	3204	C 4	9206	C 5
	3204	E 5	9206	F 6
F	3204	F 5	9207	C 4
	3209	C 5	9207	F 5
	3209	F 6	9216	C 6
	3210	C 8	9217	B 6
	3211	B 8	9218	B 6
	3212	N 6	9223	H 8
	3213	O 6	9234	N16
	3215	A13	9239	D13
G	3216	G10		
	3234	E16		
	3235	E15		
	3236	F14		
	3237	E13		
	3239	C14		
	3240	D14		
H	3241	D14		
	3243	F14		
	3247	F16		
	3248	E16		
	3249	M 9		
	3250	L 8		
	3250	N 8		
	3251	N 8		
I	3252	L 9		
	3253	L 9		
	3254	N 8		
	3255	N 9		
	3256	O 7		
	3257	O 9		
	3266	O13		
J	3267	N13		
	3268	N13		
	3270	N15		
	3271	N14		
	3272	N14		
	3273	O15		
	3275	O16		
	3306	H 8		
K	3376	H12		
	3380	G14		
	3381	H14		
	3382	H16		
	3383	H16		
	3385	H16		
	3550	E16		
	3562	F16		
L	3563	G16		
	4274	O16		
	4L02	O17		
	5202	F 4		
	5203	A 5		
	5203	D 5		
	5204	A 4		
M	5204	C 3		
	5204	D 4		
	5230	A10		
	5231	A11		
	5233	B11		
	5235	E11		
	5237	D11		
	5241	D14		
N	5255	L10		
	5260	L11		
	5262	N11		
	5381	H13		
	6201	N 7		
	6210	C 9		
	6211	C 9		
	6212	C 9		
O	6213	B 9		
	6216	G 9		
	6220	H 8		
	6221	H 8		
	6230	B12		


TP2
5V
0V
5ms/DIV
TP5
5V
0V
10ms/DIV
TP3
5V
0V
5ms/DIV
TP6
5V
0V
5V
0V
20ms/DIV
1001
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
FL1
1100
RC-5
3S18
1S19
2S18
2S19
3101
100
RC
3100
1k
+5
5100
47u
1S18
3S19
+5STBY
2100
150u
FL2/FL4
3F19
2F19
1F19
3128
FL2
FL4
180
7130
BC558
7130
BC548C
6125
BZX79/
C3V9
3125
47
4130
RES
2131
68u
4129
1R20
4F20
3R20
2F20
3188
100
6128
6129
3198
3199
2R20
3F20
4R20
1F20
3189
7128
BC558
7129
BC558
INSTALL
3161
3162
3163
3164
3165
3166
3167
7131
BC858
7132
BC858
7133
BC858
7134
BC858
7135
BC858
7136
BC858
7137
BC858
TO
SAT INTERFACE
TXD=TOMAC
RXD=FROMAC
4S15
3S15
2S15
1S15
RXD 3102
TXD 3103
2)
TP6
3104
100
13P33
10P30
11P31
0V
12P32
4V8
14P34
0V4
TP5
POR
9
0V
28P27
5V1
27P26
5V1
26P25
5V1
39P00
5V
38P01
0V
37P02
5V
36P03
5V
35P04
5V
34P05
0V
33P06
0V
32P07
2130
22n
7S02 +5 STBY
A75
+5 STBY
3149
3148
3150
4203
1)
3) 3S11
2S11
1S11
LANGUAGE
INSTALL
4S11
5S11
PP
STORE
6S11
7S11
10S11
9S11
8S11
8 *
9 *
10 *
7 *
6 *
5 *
4 *
1 *
2 *
3 *
3S44
2S44
1S44
4S44
5S44
6S44
7S44
10S44
9S44
8S44
3134
3138
3139
3140
3141
3142
3143
3144
3145
3146
1k
3157
3169
3158
S23
SERVICE
MODE
SERVICE
DEFAULT
MODE
+5 STBY
4129
RES
7130
BC848C
3128
2131
68u
HEF STROBE
1S05
2S05
3S05
4S05
5S05
6S05
9S05
8S05
7S05
FL1
8911
1LO5
2LO5
3LO5
4LO5
5LO5
6LO5
9LO5
8LO5
7LO5
2)
BC858
+5 STBY
7110
BC558
3132
3204
100
2152
22n
POR 1
4S02
4125
RES
C53
A73
H1

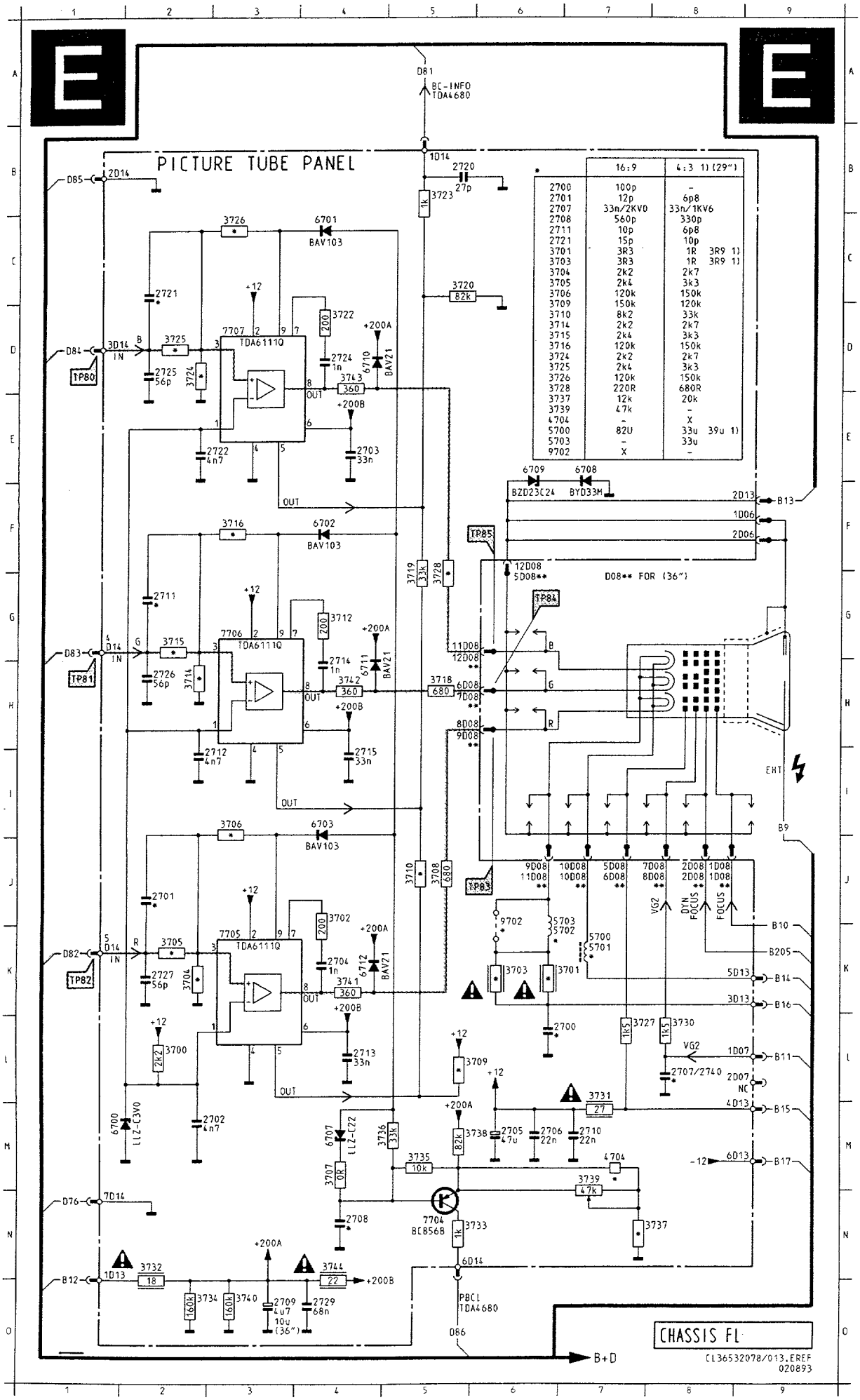

CONTROL BOARD
MEM (NVM)
ST24C08CB1
S30 = OPEN: READ ONLY SERVICE SETTINGS
S30 = CLOSE: READ/WRITE SERVICE SETTINGS
WRITE ENABLE
SERVICE MODE
SERVICE DEFAULT MODE
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) NOT FOR FL4
2) ONLY 3RD SCART/EURO AV3
* FRONT S45 (FL1)
SIDE R44 (FL2/4)
CHASSIS FL
CL46532011/014,HREF 020494
C+D+F+Y


A
Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille
SOPS
µSOPS
33" ONLY
DEGAUSSING COIL
SAT BOX TO S117
START
PROT +V
* MEASURED IN RESPECT OF MISURATO NEI CONFRONTI DI
(...V)

FLx.24 (16:9)



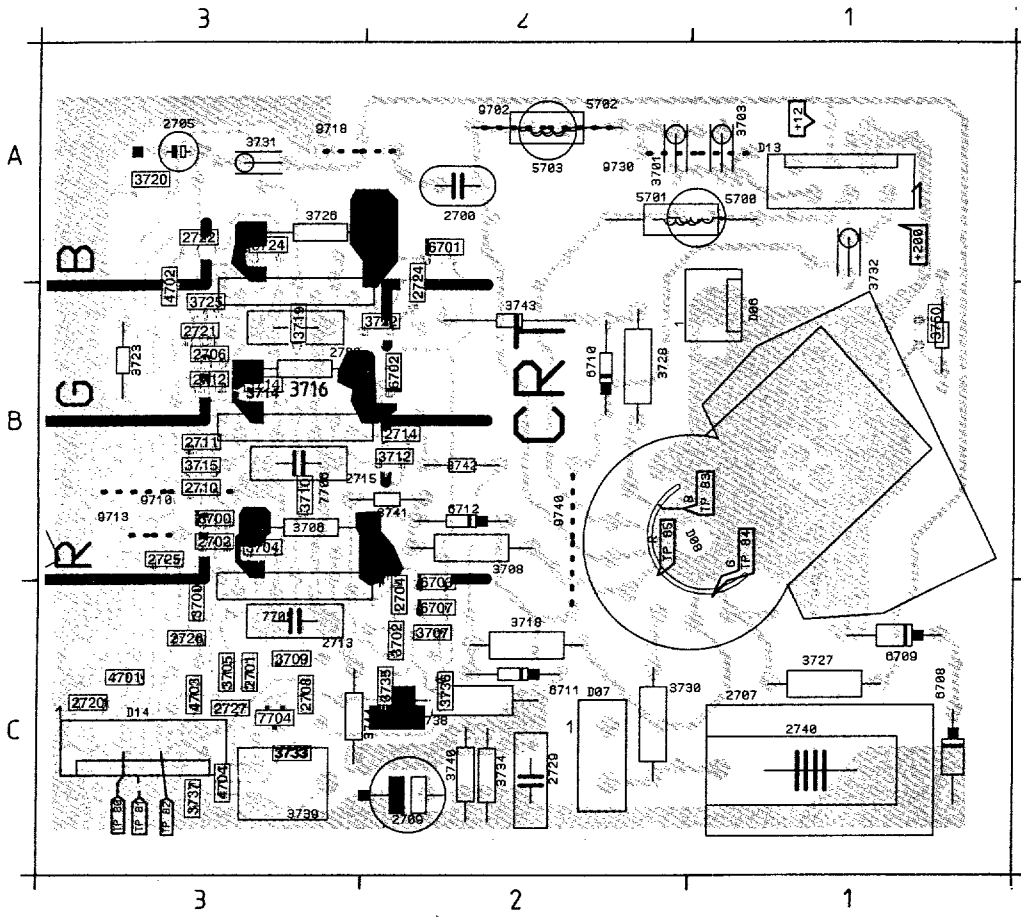
(727 O15 6262 N11
1200 B 3 6266 N11
1200 B 3 6272 O13
1250 L 7 6280 D14
2200 C 3 6306 H 7
2200 C 3 6352 I14
2203 B 5 6353 I14
2203 B 5 6372 K14
2210 C 8 6373 K14
2211 C 8 6375 G11
2214 D 9 6376 H11
2215 I 6 7201 N 6
2216 F 9 7216 F 8
2218 E 9 7241 E13
2231 A11 7242 F13
2232 A12 7243 F13
2233 B11 7250 N 7
2234 B12 7251 N 8
2235 E11 7268 N12
2237 D11 7270 M13
2238 C12 7273 O13
2239 E14 7380 H12
2240 E12 7381 H13
2250 N 6 7384 H14
2254 M 9 9019 I16
2255 N 8 9204 B 4
2258 O 5 9205 C 6
2260 M11 9205 C 6
2261 M11 9207 C 5
2262 N11 9207 D 5
2263 O11 9218 B 5
2270 N14 9219 M10
2272 O14 9223 I 7
2330 F12 9231 A10
2380 G13 9232 B10
2381 H12 9235 E10
2382 I11 9239 N10
2386 H15 9243 D10
3201 D 1
3201 D 1
3202 I 6
3203 D 5
3204 B 5
3204 C 5
3204 B 5
3204 C 6
3209 C 6
3209 C 6
3210 C 7
3211 C 7
3212 N 4
3213 O 4
3214 B13
3215 A12
3216 G 9
3238 D13
3239 C13
3240 D13
3241 D13
3242 E12
3243 F13
3244 F12
3245 F13
3247 F14
3248 E14
3249 M 8
3250 O 7
3251 N 7
3252 L 8
3253 L 9
3255 N 8
3266 O11
3267 N11
3268 N12
3270 N13
3271 N12
3272 N13
3273 O14
3275 O14
3306 I 7
3376 H11
3380 G13
3381 H13
3382 H15
3383 H14
3387 H15
5202 C 4
5203 A 5
5203 A 5
5204 C 4
5204 A 4
5204 A 4
5230 A 9
5231 A10
5233 B10
5235 E10
5237 D10
5241 E14
5255 L 9
5260 L10
5262 N10
5381 H12
6201 O 7
6210 C 8
6211 C 8
6212 C 9
6213 C 9
6216 G 8
6230 B11
6232 A11
6235 E11
6237 C11
6238 D11
6246 G12
6251 O 8
6260 L11



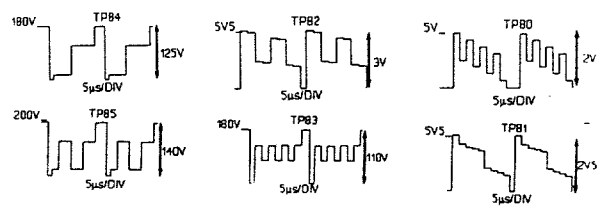
	16:9	4:3 1) (29")
2700	100p	-
2701	12p	6p8
2707	33n/2KV0	33n/1KV6
2708	560p	330p
2711	10p	6p8
2721	15p	10p
3701	3R3	1R 3R9 1)
3703	3R3	1R 3R9 1)
3704	2k2	2k7
3705	2k4	3k3
3706	120k	150k
3709	150k	120k
3710	8k2	33k
3714	2k2	2k7
3715	2k4	3k3
3716	120k	150k
3724	2k2	2k7
3725	2k4	3k3
3726	120k	150k
3728	220R	680R
3737	12k	20k
3739	47k	-
4704	-	X
5700	82U	33u 39u 1)
5703	-	33u
9702	X	-

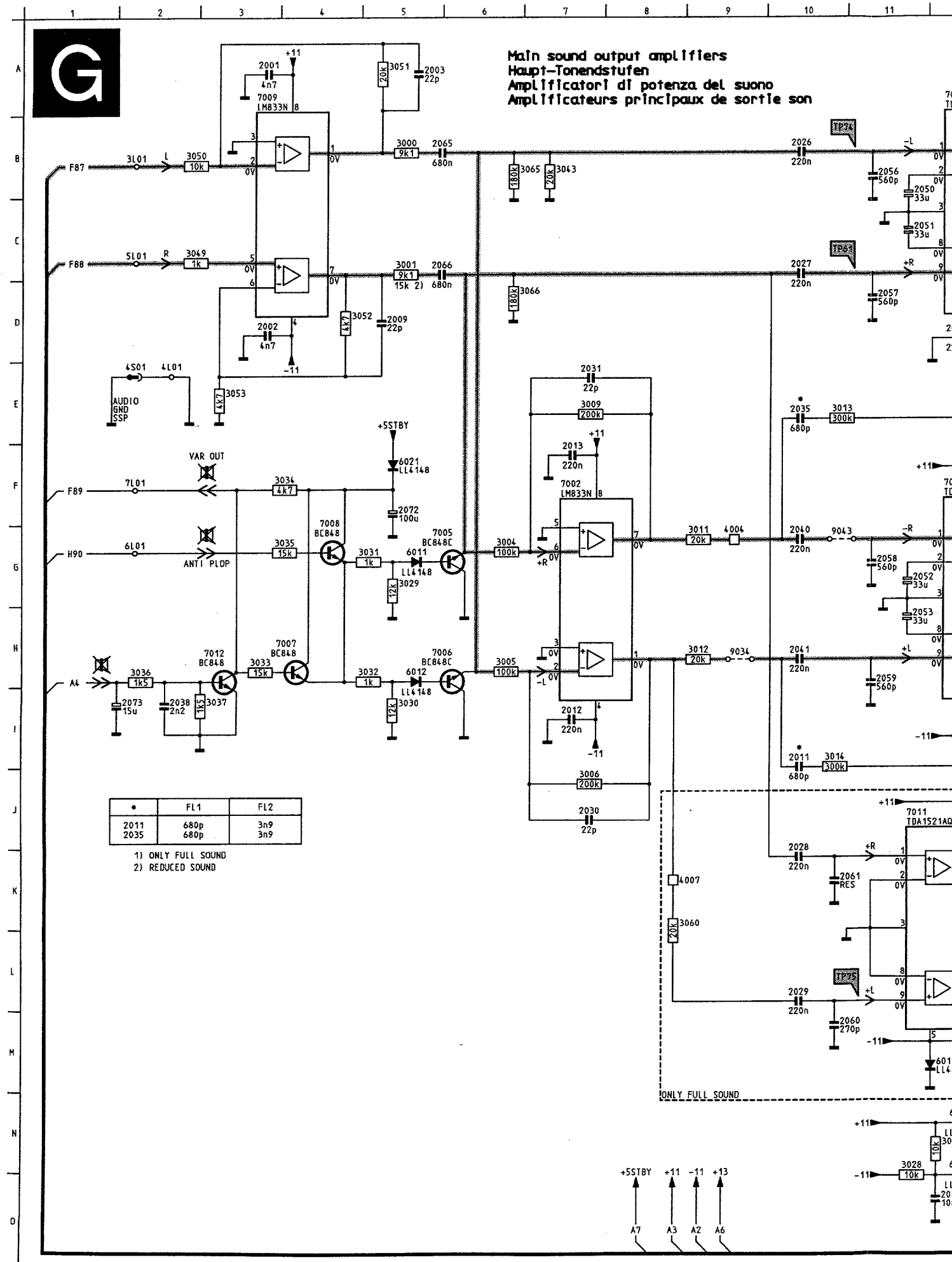
2700 K 6
2701 J 2
2702 M 2
2703 L 4
2704 K 4
2705 M 6
2706 M 6
2707 L 8
2708 N 4
2709 E 7
2710 M 7
2711 G 2
2712 I 2
2713 E 4
2714 H 4
2715 I 4
2720 B 5
2721 C 2
2722 E 2
2724 D 4
2725 D 2
2726 H 2
2727 K 2
2729 E 6
3700 L 2
3701 K 6
3702 J 4
3703 K 6
3704 K 2
3705 K 2
3706 I 3
3707 M 4
3708 J 5
3709 L 5
3710 J 5
3712 G 4
3714 H 2
3715 G 2
3716 F 3
3718 H 5
3719 G 5
3720 C 5
3722 D 4
3723 B 5
3724 D 2
3726 C 3
3727 K 7
3728 G 5
3730 K 8
3731 L 7
3732 D 8
3733 N 5
3734 E 8
3735 M 5
3736 M 5
3737 N 6
3738 M 5
3739 M 6
3740 E 7
3741 K 4
3742 H 4
3743 D 4
3744 D 6
4709 I 2
5700 J 7
6700 M 1
6701 C 4
6702 F 4
6703 I 4
6707 M 4
6708 E 7
6709 E 6
6710 D 4
6711 H 4
6712 K 4
7704 N 5
7705 K 3
7706 G 3
7707 D 3

Platines Tube-image



D06	B1	3708	B2	5701	A2
D07	C2	3709	C3	5702	A2
D08	B1	3710	B3	5703	A2
D13	A1	3712	B2	6700	B3
D14	C3	3714	B3	6701	A2
2700	A2	3715	B3	6702	B2
2701	C3	3716	B3	6703	C2
2702	B3	3718	C2	6707	C2
2703	B3	3719	B3	6708	C1
2704	C2	3720	A3	6709	C1
2705	A3	3722	B2	6710	B2
2706	B3	3723	B3	6711	C2
2707	C1	3724	A3	6712	B2
2708	C3	3725	B3	7704	C3
2709	C2	3726	A3	7705	C3
2710	B3	3727	C1	7706	B3
2711	B3	3728	B2	7707	B3
2712	B3	3730	C2	9702	A2
2713	C3	3731	A3	9710	B3
2714	B2	3732	A1	9713	B3
2715	B3	3733	C3	9718	A3
2720	C3	3734	C2	9730	A1
2721	B3	3735	C2	9740	B2
2722	A3	3736	C2		
2724	B2	3738	C2		
2725	B3	3739	C3		
2726	C3	3740	C2		
2727	C3	3741	B2		
2729	C2	3742	B2		
2740	C1	3743	B2		
3700	C3	3744	C3		
3701	A2	3750	B1		
3702	C2	3751	B1		
3703	A1	4701	C3		
3704	B3	4702	B3		
3705	C3	4703	C3		
3706	B3	4704	C3		
3707	C2	5700	A1		

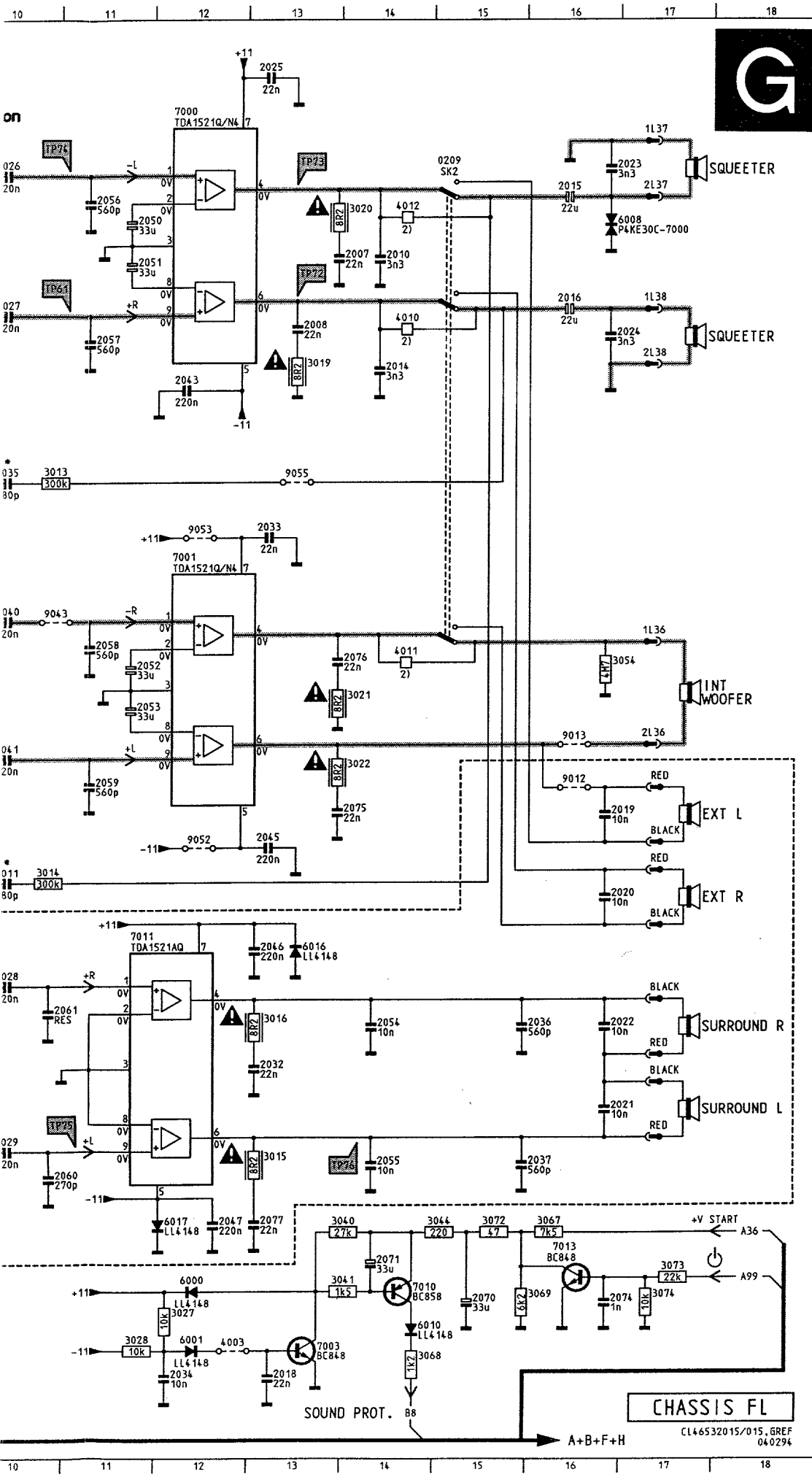




*	FL1	FL2
2011	680p	3n9
2035	680p	3n9

1) ONLY FULL SOUND
2) REDUCED SOUND

Amplificateur audio

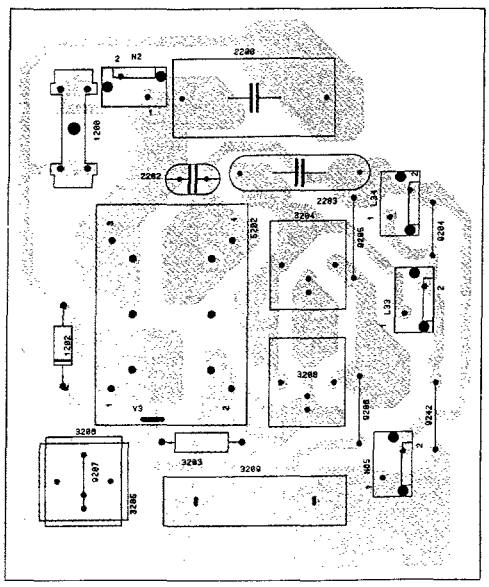


	0209	B15	6011 G 5
	2001	A 3	6012 H 5
	2002	D 3	6016 J13
	2003	A 5	6017 M12
A	2007	C14	6021 F 5
	2008	D13	7000 A12
	2009	D 5	7001 F12
	2010	C14	7002 F 7
	2011	I10	7003 O13
	2012	I 7	7005 G 5
	2013	F 7	7006 H 5
	2014	D14	7007 H 3
B	2015	B16	7008 G 4
	2016	C16	7009 A 3
	2018	O13	7010 N14
	2019	I16	7011 J11
	2020	J16	7012 H 3
	2021	L16	7013 M16
	2022	K16	9012 H16
	2023	B16	9013 H16
C	2024	D16	9034 H 9
	2025	A13	9043 G10
	2026	B10	9052 I12
	2027	C10	9053 F12
	2028	K10	9055 E13
	2029	L10	
	2030	J 7	
D	2031	E 7	
	2032	K13	
	2033	F13	
	2034	O12	
	2035	E10	
	2036	K16	
	2037	M16	
	2038	I 2	
E	2040	G10	
	2041	H10	
	2043	D12	
	2045	I13	
	2046	J13	
	2047	M12	
	2050	B11	
F	2051	C11	
	2052	G11	
	2053	H11	
	2054	K14	
	2055	M14	
	2056	B11	
	2057	D11	
	2058	G11	
G	2059	H11	
	2060	M10	
	2061	K10	
	2065	B 5	
	2066	C 5	
	2070	N15	
	2071	N14	
H	2072	F 5	
	2073	I 2	
	2074	N16	
	2075	I14	
	2076	G14	
	2077	M13	
	3000	B 5	
	3001	C 5	
I	3004	G 6	
	3005	H 6	
	3006	J 7	
	3009	E 7	
	3011	G 9	
	3012	H 9	
	3013	E10	
J	3014	I10	
	3015	L13	
	3016	K13	
	3019	D13	
	3020	B14	
	3021	G14	
	3022	H14	
	3027	N12	
K	3028	N11	
	3029	G 5	
	3030	I 5	
	3031	G 5	
	3032	H 5	
	3033	H 3	
	3034	F 4	
L	3035	G 4	
	3036	H 2	
	3037	I 3	
	3040	M14	
	3041	N14	
	3043	B 7	
	3044	M15	
	3049	C 2	
M	3050	B 2	
	3051	A 5	
	3052	D 4	
	3053	E 3	
	3054	G16	
	3060	K 8	
	3065	B 6	
	3066	D 6	
N	3067	M16	
	3068	O14	
	3069	N16	
	3072	M15	
	3073	N17	
	3074	N17	
	4003	N12	
	4004	G 9	
O	4007	K 8	
	6000	N12	
	6001	N12	
	6008	B16	
	6010	N14	

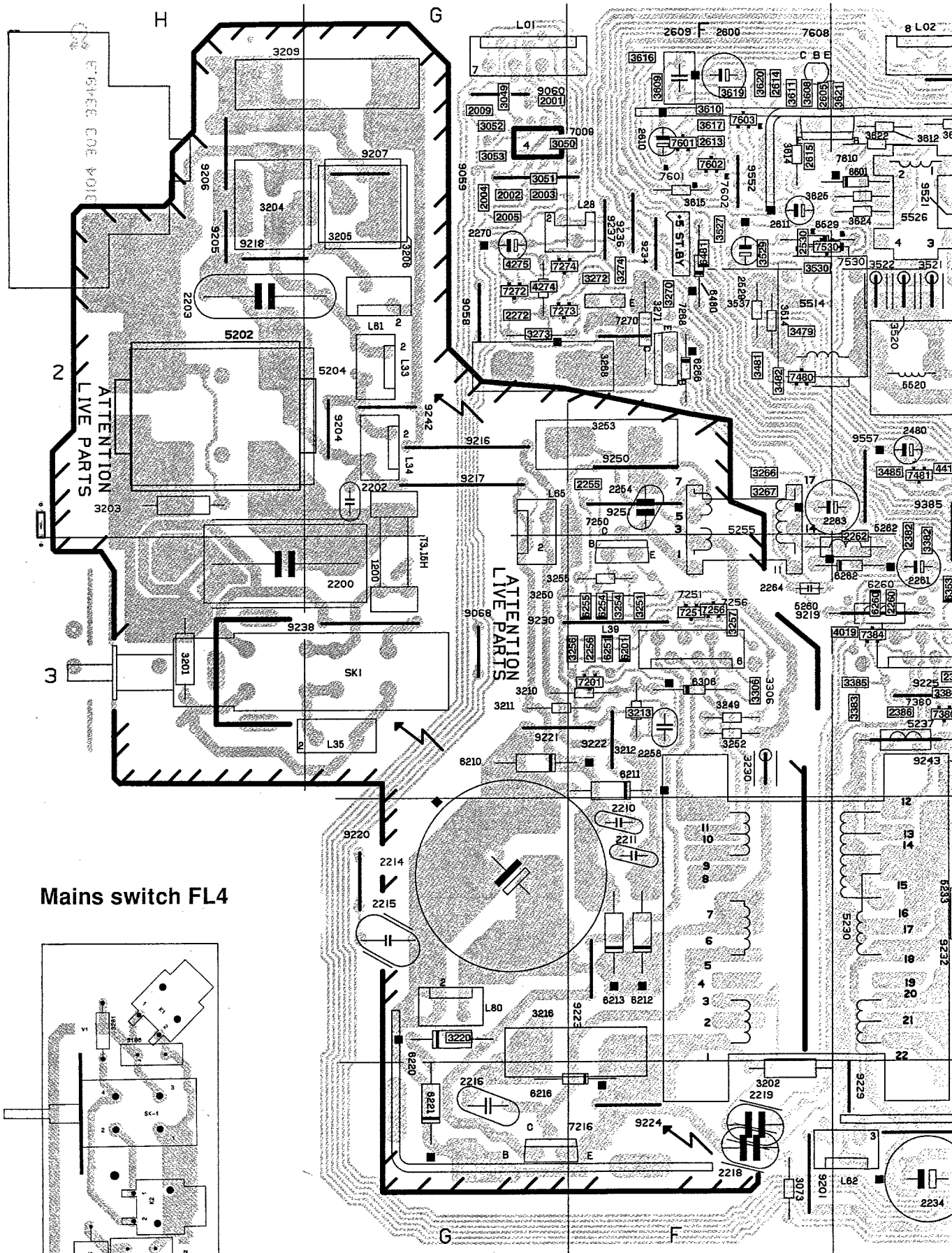
Large signal panel FLx.26/.27 /

L01	F1	2238	D4	3009	C5	3369	H4	3537	F2	5262	E3	7000	C5	9008	B5	9236	F1	9601	E1
L02	E1	2240	D4	3011	C5	3370	H4	3538	D3	5308	H5	7001	D5	9010	C5	9237	F1	9614	E2
L03	A1	2241	B4	3012	C5	3371	H4	3539	D1	5310	H5	7002	C5	9012	A4	9238	G3	9615	B2
L08	C4	2242	B4	3013	D4	3372	H4	3540	C4	5381	E3	7003	A5	9013	A4	9239	B4		
L13	C4	2250	F3	3014	D4	3374	H4	3541	C4	5503	B1	7005	D5	9015	B4	9240	B4		
L27	B3	2254	F2	3016	B5	3375	H4	3542	C4	5504	C1	7006	D5	9017	B5	9241	E3		
L28	G1	2255	F3	3019	B5	3376	E3	3543	C4	5506	C1	7007	D5	9020	D5	9242	G2		
L30	A1	2258	F3	3020	B5	3378	H4	3544	C4	5510	D1	7008	D5	9022	A3	9243	E3		
L31	E2	2259	F3	3021	B5	3380	E3	3545	E2	5511	D3	7009	G1	9023	A4	9244	B4		
L33	G2	2260	E3	3022	B5	3381	E3	3546	C4	5514	F2	7010	A5	9024	A4	9246	E1		
L34	G2	2261	E3	3027	A5	3382	E3	3547	C2	5520	E2	7011	B5	9025	A5	9250	F2		
L35	G3	2262	E3	3028	A5	3383	E3	3548	D2	5521	E1	7012	D4	9026	A4	9251	F2		
L36	A2	2263	E2	3029	D5	3385	E3	3549	D2	5522	E2	7013	A5	9027	A5	9300	H5		
L37	A3	2270	G1	3030	D5	3402	A2	3550	B4	5524	D1	7201	F3	9028	A5	9302	H4		
L38	A2	2272	G2	3031	D5	3403	A2	3553	B4	5525	C4	7216	G5	9029	B5	9385	E2		
L39	F3	2302	H5	3032	D5	3404	B2	3554	B4	5526	E1	7241	B4	9031	C4	9400	C1		
L40	E3	2303	H5	3033	D4	3405	B3	3555	B3	5527	C1	7242	B4	9032	C5	9401	B2		
L61	G2	2308	H5	3034	D4	3406	B3	3556	B3	5528	C2	7246	E1	9033	C5	9402	B3		
L62	E5	2321	H5	3035	D5	3407	B3	3557	C4	5534	D3	7250	F3	9034	C5	9405	A1		
L65	G2	2331	H4	3036	D4	3408	B3	3558	B3	5536	D3	7251	F3	9035	A4	9406	B2		
L67	D4	2351	H4	3037	D4	3409	B3	3559	B4	5543	D4	7268	F2	9036	A4	9407	B2		
L68	C3	2360	H4	3040	A5	3410	B3	3560	C3	5548	D1	7270	F2	9037	B3	9450	B1		
L69	A2	2361	H4	3041	A5	3411	B2	3561	C3	5555	D3	7272	G2	9038	B3	9451	A1		
L80	G4	2365	H4	3042	A5	3412	B3	3562	B4	6000	A5	7273	F2	9039	B1	9453	B2		
L87	B2	2372	H4	3043	C4	3413	B3	3563	B4	6001	A5	7274	G1	9041	C4	9454	B2		
SK1	G3	2374	H4	3044	A5	3414	B3	3600	B2	6008	A3	7305	H5	9042	C4	9456	B2		
SK2	B3	2376	H4	3049	G1	3415	B3	3601	C2	6010	A5	7311	H5	9043	D5	9457	A1		
0207	A4	2380	E3	3050	G1	3416	B3	3602	B2	6011	D5	7312	H5	9045	D4	9459	A3		
0211	A3	2381	E3	3051	G1	3417	B3	3603	B2	6012	D5	7318	H5	9046	D4	9460	B2		
039	H5	2382	E3	3052	G1	3418	B3	3604	B2	6016	B5	7320	H4	9047	E5	9461	B3		
040	H4	2386	E3	3053	G1	3419	B3	3605	C3	6017	E4	7321	F3	9048	D4	9462	C4		
1200	G3	2401	B3	3054	A2	3420	B3	3606	B2	6021	D4	7360	H4	9050	A3	9468	B3		
2001	G1	2402	A2	3060	B5	3421	B3	3607	B2	6201	F3	7369	H4	9051	D4	9471	B2		
2002	G1	2403	A2	3061	B5	3422	B3	3608	F1	6210	G3	7370	H4	9052	D4	9472	A2		
2003	G1	2404	A2	3065	C4	3423	B3	3609	F1	6211	F3	7371	H4	9053	D5	9473	B2		
2004	G1	2405	A2	3066	C5	3424	B2	3610	F1	6212	F4	7380	E3	9054	D4	9500	D2		
2005	G1	2406	B3	3067	A4	3425	B3	3611	F1	6213	F4	7381	E3	9055	A4	9501	D2		
2007	B5	2407	B2	3068	A4	3426	A2	3612	E1	6216	F5	7384	E3	9056	A4	9504	D2		
2008	B5	2408	C3	3069	A4	3427	B3	3614	F1	6220	G4	7400	B3	9057	C5	9505	C1		
2009	G1	2409	B2	3072	A5	3428	C3	3615	F1	6221	G5	7402	C3	9058	G2	9506	D1		
2010	A4	2410	B2	3073	F5	3429	B3	3616	F1	6230	E4	7403	A1	9059	G1	9507	C2		
2011	D5	2411	B2	3074	A5	3430	B3	3617	F1	6231	E4	7407	B3	9060	G1	9508	B2		
2012	C5	2412	C3	3201	H3	3431	B3	3618	B2	6232	E4	7417	B3	9063	B5	9510	D2		
2013	C5	2415	A3	3202	F5	3437	A1	3619	F1	6233	E4	7444	B2	9064	B5	9511	C2		
2014	A3	2416	B3	3203	H2	3438	B2	3620	F1	6235	D3	7445	B2	9065	B4	9513	D1		
2015	A3	2417	B3	3204	H1	3439	B3	3621	E1	6237	E3	7450	A1	9066	B5	9521	E1		
2016	A3	2418	A3	3205	G1	3440	B1	3622	E1	6238	E3	7451	A1	9067	A3	9522	E1		
2018	A5	2419	A2	3206	G1	3441	B3	3623	E1	6247	B4	7469	B2	9068	G3	9524	D1		
2019	A4	2450	A1	3209	G1	3442	B3	3624	E1	6251	F3	7480	F2	9200	E5	9530	B2		
2020	A4	2451	B1	3210	F3	3443	C3	3625	E1	6260	E3	7481	E2	9201	F5	9533	C2		
2021	A4	2452	B1	3211	G3	3444	B2	3626	B2	6262	E3	7501	B2	9202	D3	9534	C2		
2022	A4	2454	A2	3212	F3	3446	B2	3627	A1	6266	F2	7504	D1	9203	D4	9535	C3		
2023	A3	2455	B1	3213	F3	3450	A1	3628	A1	6272	G2	7506	D1	9204	G2	9537	C3		
2024	A3	2456	A2	3214	E5	3451	A1	3629	B2	6280	C4	7512	C3	9205	H1	9539	C3		
2025	C5	2457	A2	3215	E5	3452	B1	3630	A2	6302	H5	7513	C3	9206	H1	9541	D2		
2026	B5	2458	B1	3216	F4	3455	A1	3631	A2	6303	H5	7530	F1	9207	G1	9542	C2		
2027	C5	2459	B1	3220	G4	3456	A2	3632	C3	6304	H5	7540	C4	9216	G2	9543	C2		
2028	B5	2460	B1	3230	F3	3457	A2	3633	A2	6305	H5	7541	C4	9217	G2	9544	D1		
2029	B5	2480	E2	3234	B4	3458	A1	3634	A1	6306	F3	7542	C4	9218	H1	9545	C1		
2030	C5	2502	B2	3235	B4	3459	A1	4000	A5	6308	H5	7543	D2	9219	E3	9547	D1		
2031	C5	2503	B2	3236	B4	3460	B1	4001	D5	6312	H5	7550	D3	9220	G4	9548	D1		
2032	B5	2504	D1	3237	C4	3461	A1	4002	B5	6314	H5	7551	B4	9221	G3	9549	E1		
2033	D5	2505	D1	3238	C4	3462	A1	4003	A5	6315	H5	7552	B4	9222	F3	9550	C1		
2034	A5	2509	D2	3239	D3	3463	A1	4004	C5	6318	H5	7601	F1	9223	F4	9551	C1		
2035	C5	2511	C2	3240	E3	3464	A1	4005	C5	6319	H5	7602	F1	9224	F5	9552	F1		
2036	A4	2512	C3	3241	B4	3465	A2	4006	D5	6321	F3	7603	F1	9225	E3	9556	C1		
2037	A4	2513	C3	3243	B4	3466	A1	4007	C5	6331	H4	7608	F1	9228	E4	9557	E2		
2038	D4	2517	C3	3245	B4	3467	B2	4010	A3	6349	H4	7610	E1	9229	E5	9560	D3		
2039	A4	2518	C3	3246	E1	3468	A1	4011	B3	6350	H4	7616	A1	9230	F3	9561	D3		
2040	D5	2519	E2	3247	B4	3469	A1	4012	A3	6351	H4	7618	A2	9231	E5	9562	C3		
2041	D5	2520	D2	3248	B4	3470	A1	4019	E3	6352	E3	9000	A4	9232	E4	9563	C3		
2042	C5	2521	D1	3249	F3	3471	A1	4039	B1	6353	E3	9001	C5	9233	F2	9565	B4		
2043	C5	2522	D1	3250	F3	3473	B1	4274	G2	6355	H4	9002	A3	9234	F1	9566	D3		
2044	D5	2523	C1	3251	F3	3474	A2	4400	B1	6356	H4	9003	A4	9235	E4	9567	D3		
2045	D5	2524	D1	3252	F3	3479	F2	4410	B2	6357	H4								
2046	B5	2526	C1	3253	F2	3480	B1	4411	B2	6370	H4								
2047	B5	2527	C1	3255	F3	3481	F2	4412	B2	6371	H4								
2048	B1	2528	C1	3266	F2	3482	F2	4413	B3	6372	E3								
2049	A4	2529	F1	3267	F2	3483	B3	4415	E2	6373	E3								
2050	C5	2530	F1	3268	G2	3484	B3	4416	B2	6375	E3								
2051	C5	2531	D3	3270	F2	3485	E2	4417	B2	6376	E3								
2052	D5	2533	D3	3271	F2	3490	B3	4420	A2	6402	B3								
2053	D5	2534	D3	3272	F2	3500	B2	4421	B2	6403	C3								
2054	B5	2535	C4	3273	G2	3501	B2	4465	A1	6404	C3								
2055	B5	2536	D3	3274	G1	3502	B1	4466	A1	6405	B1								
2056	C5	2537	D3	3275	G2	3503	B1	4467	A1	6417	B3								
2057	C5	2541	D4	3298	F5	3504	D1	4468	B2	6440	B3								
2058	D5	2542	C4	3299	F5	3505	D1	4469	A1	6441	B3								
2059	D5	2543	C4	3300	H5	3506	C1	4507	D4	6451	B1								
2060	B5	2545	C4	3304	H5	3507	D1	4517	B3	6452	B1								
2061	B5	2546	D2	3305	H5	3508	C2	4518	B4	6453	B1								
2065	C4	2547	C2	3306	F3	3509	C2	4519	C3	6465	A1								
2066	D5	2552	B4	3308	H5	3510	D1	4521	C4	6466	A1								
2070	A4	2553	B4	3309	H5	3512	C3	4522	C4	6467	A1								
2071	A5	2554	D4	3310	H5	3513	C3	4524	C4	6480	F1								
2072	D4	2555	B3	3311	H5	3514	F2	4525	C4	6481	F1								
2073	D4	2556	B4	3312	H5	3515	C2	4527	D3	6504	D1								
2074	A5	2600	F1	3313	H5	3516	C2	4528	D4	6506	C1								
2200	H3	2601	B2	3314	H5	3517	C2	4529	D4	6507	B4								
2202	G2	2603	C2	3317	H5	3518	E2	4530	D2	6515	C3								
2203	H2	2604	B2	3320	H5	3519	E2	4531	D2	6516	C3								
2210	F4	2605	F1	3321	H5	3520	E2	4533	C2	6517	C3								
2211	F4	2606	C3	3322	H5	3521	E2	4534	C3	6519	E2								
2214	G4	2607	B3	3331	H4	3522	E2	4535	C1	6520	E2								
2215	G4	2609	F1	3332	H4	3524	D1	4536	C1	6526	C1								
2216	G5	2610	F1	3350	H4	3525	C4	4537	C3	6527	C1								
2218	F5	2611	F1	3351	H4	3526	C1	4538	C3	6529	F1								
2219	F5	2613	F1	3356	H4	3527	F1	5204	H2	6535	D3								
2230	B4	2614	F1	3357	H4	3528	D3	5230	F4	6536	C3								
2231	E4	2626	A2	3358	H4	3529	F1	5231	E5	6538	B2								
2232	E5	3000	D4	3360	H4	3530	F2	5233	E4	6542	C4								
2233	E4	3001	D5	3362	H4	3532	C3	5235	E4	6546	C2								
2234	E5	3004	C5	3364	H4	3533	C3	5237	E3	6547	D3								
2235	D3	3005	D5	3365	H4	3534	D3	5241	C4	6551	B4								
2236	D4	3006	C5	3366	H4	3535	D3	5255	F3	6601	E1								
2237	E3	3008	C5	3368	H4	3536	D3	5260	E3	6629	B2								

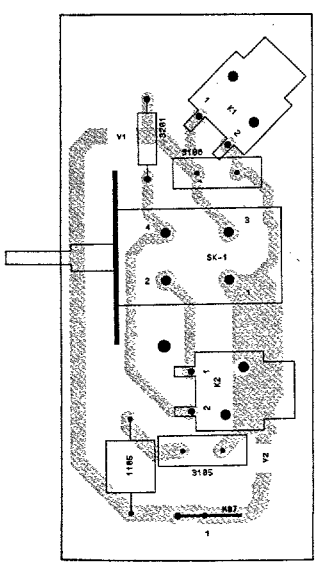
Mains filter FL4



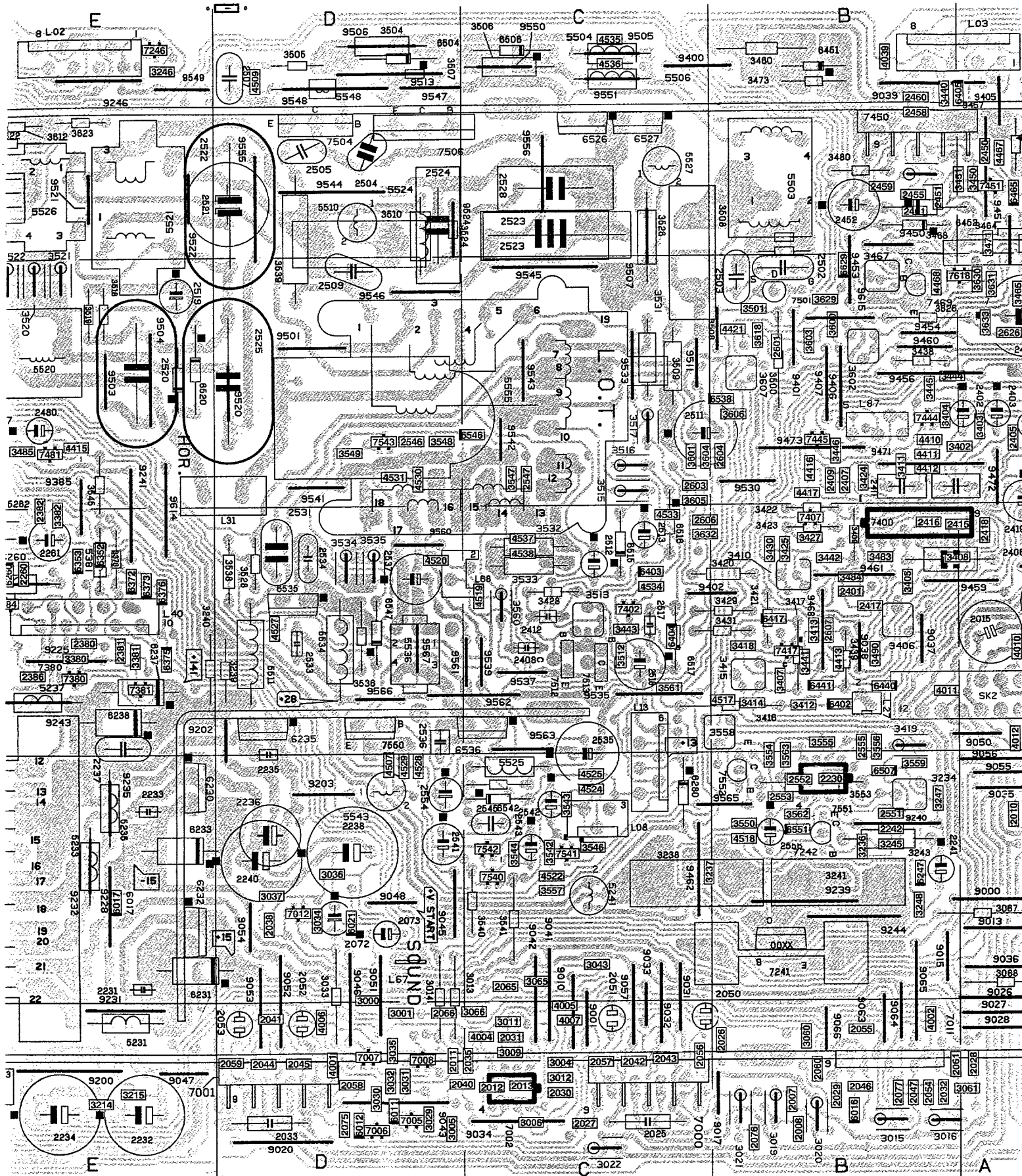
Groß-signal Platte FLx.26/.27



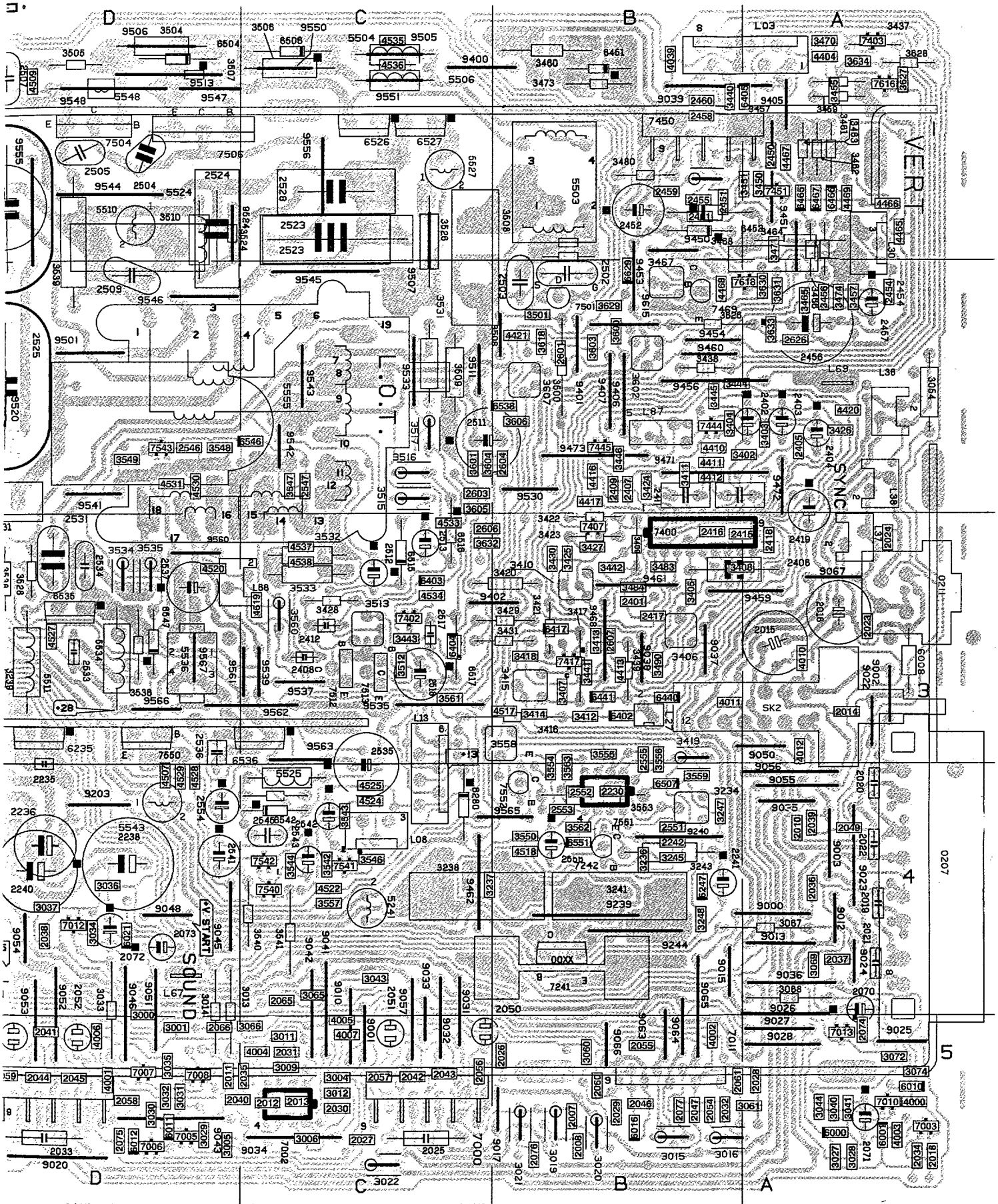
Mains switch FL4



Platine forts signeaux FLx.26/.27



gneaux FLx.26/.27



L01	F1	2259	F3	3011	C5	3375	H4	3553	E2	5526	E1	7273	F2	9238	G3	9520	E2
L02	E1	2260	E3	3012	C5	3376	E3	3555	D1	5527	C1	7274	F1	9239	E3	9521	D1
L03	A1	2261	E3	3013	D4	3378	H4	3556	C1	5534	D3	7305	H5	9240	B4	9522	E2
L06	C2	2262	E3	3014	D4	3380	E3	3558	C2	5543	D4	7311	H5	9241	E3	9529	D3
L13	C4	2263	E2	3016	B5	3381	E3	3559	B2	5555	D3	7312	H5	9242	G2	9530	B2
L30	A1	2270	G1	3019	B5	3382	E3	3560	C4	6000	A5	7318	H5	9243	E3	9533	C2
L32	E2	2272	G2	3020	B5	3383	E3	3561	C4	6001	A5	7320	H4	9246	E1	9534	C2
L33	G2	2302	H5	3021	B5	3387	E3	3562	D4	6008	A3	7360	H4	9247	F1	9535	C3
L34	G2	2303	H5	3022	B5	3402	B2	3563	C4	6010	A5	7369	H4	9250	F2	9537	C3
L35	G3	2308	H5	3027	A5	3403	B2	3564	D3	6011	D5	7370	H4	9251	F2	9538	D3
L36	A2	2321	H5	3028	A5	3404	A2	3570	C4	6012	D5	7371	H4	9300	H5	9539	D3
L37	A3	2330	B4	3029	D5	3405	B3	3573	D1	6016	B5	7380	E3	9302	H4	9540	D4
L38	A2	2331	H4	3030	D5	3406	B3	3601	B2	6017	D4	7381	E3	9385	E2	9541	D2
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L40	E3	2360	H4	3032	D5	3408	B3	3603	B2	6201	F3	7400	B3	9437	B3	9543	C2
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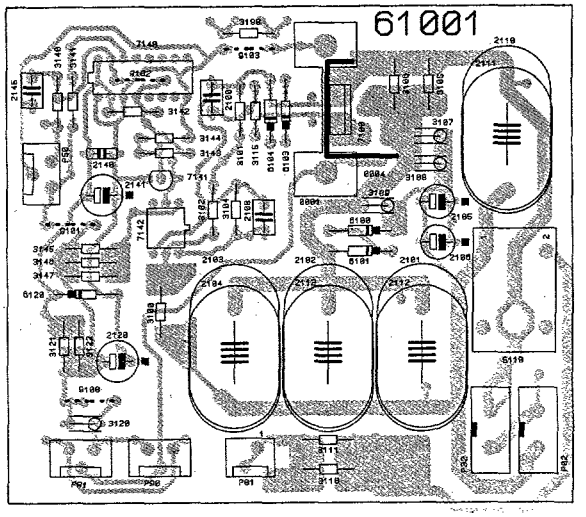
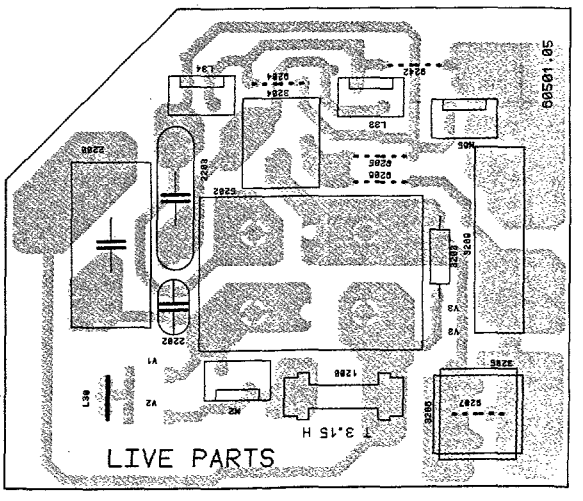
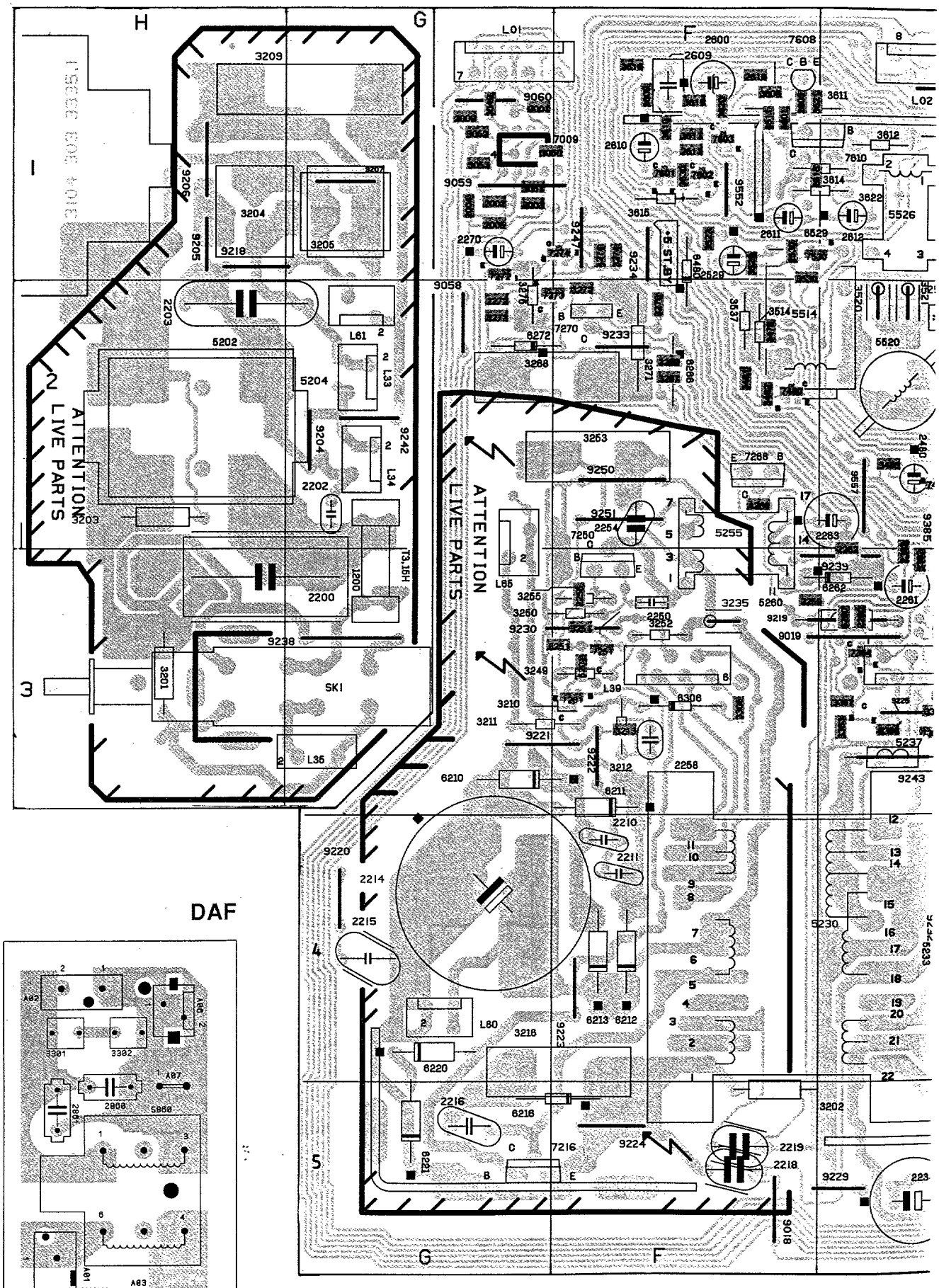
Panorama



Mains filter FL2



Large signal panel FLx.24 / Groß-signal Platte FLx.24 /



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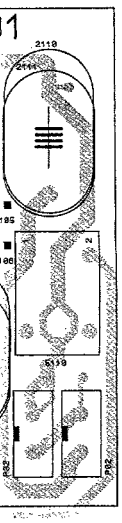
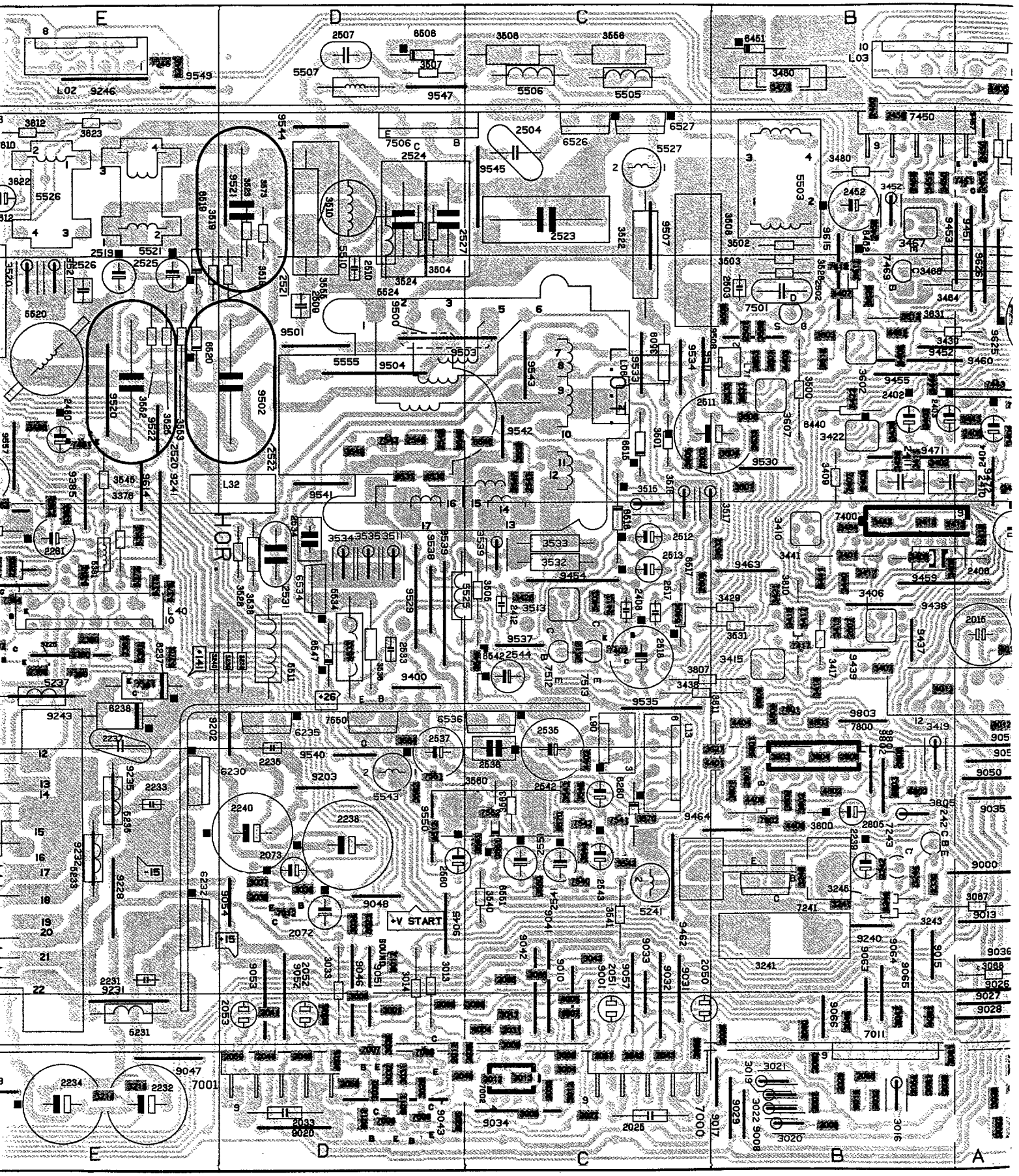
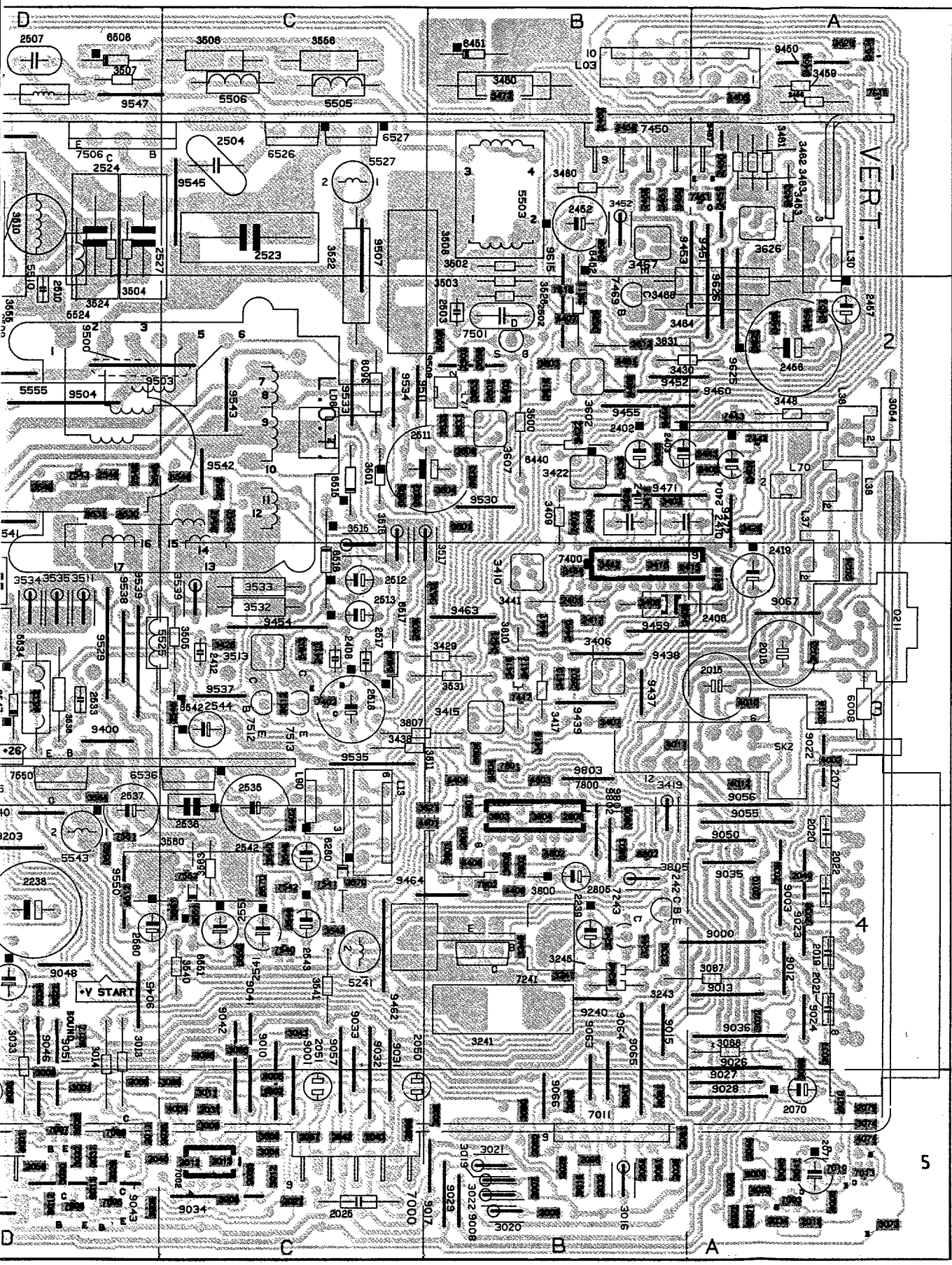


lter FL2

Platine forts signeaux FLx.24



gneaux FLx.24



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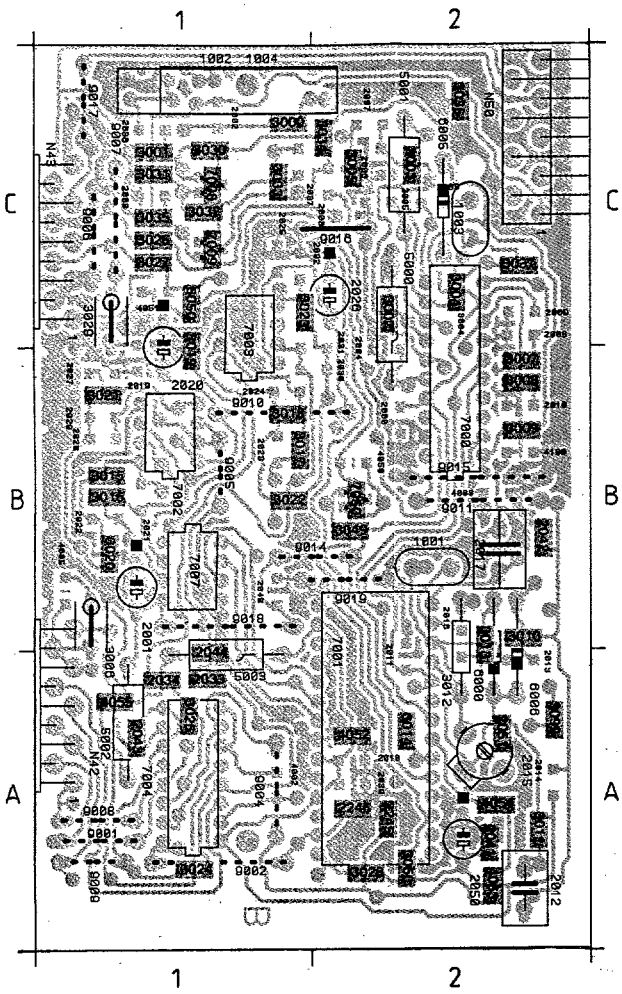

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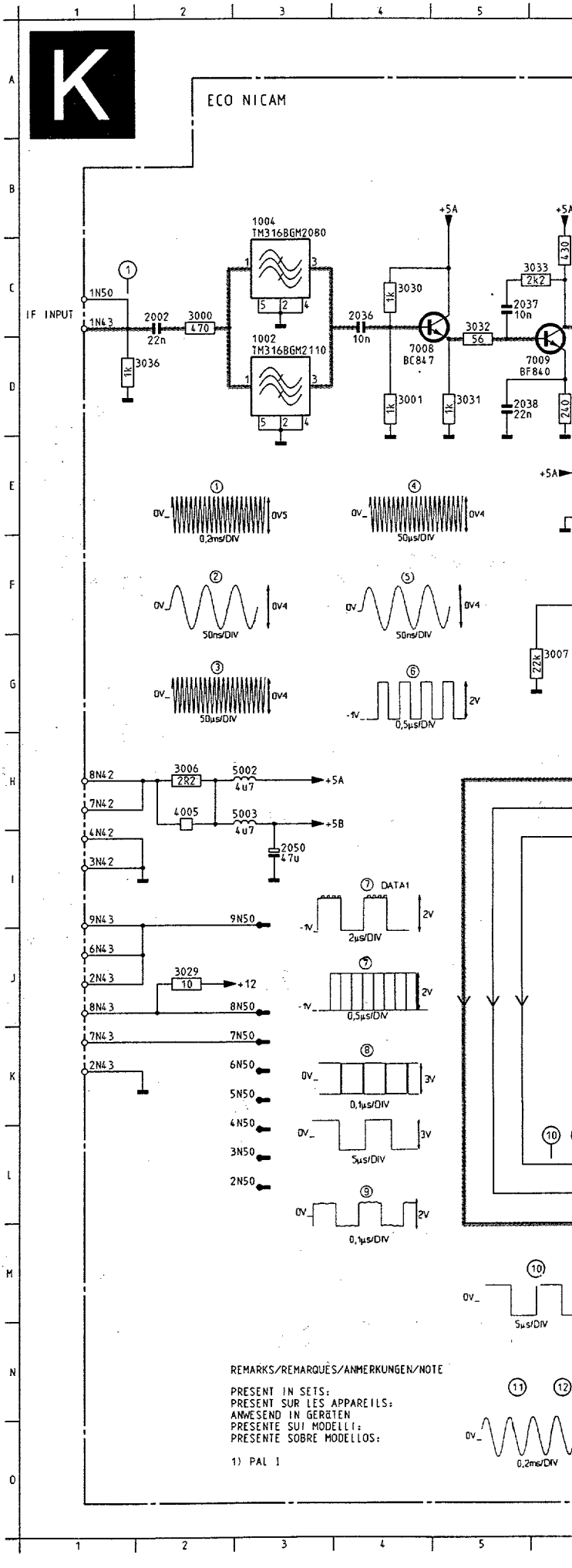

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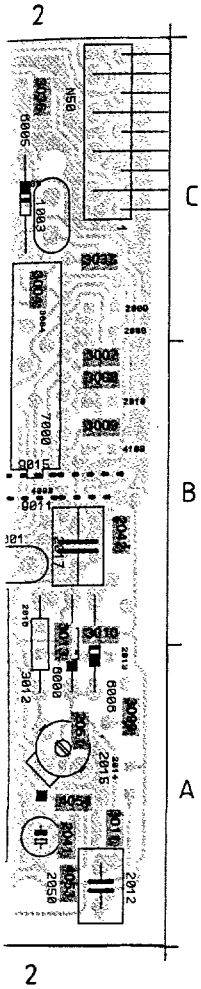

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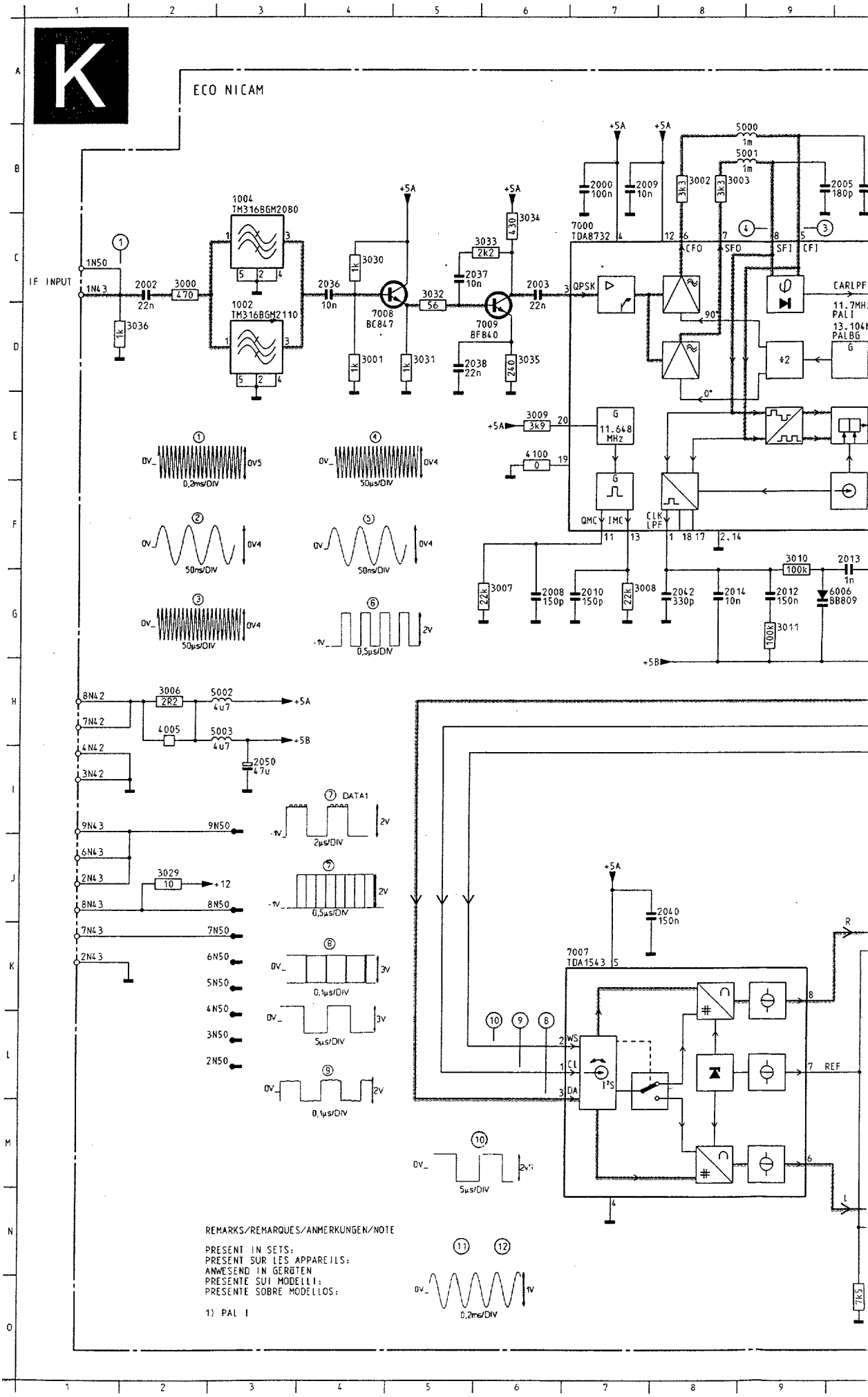

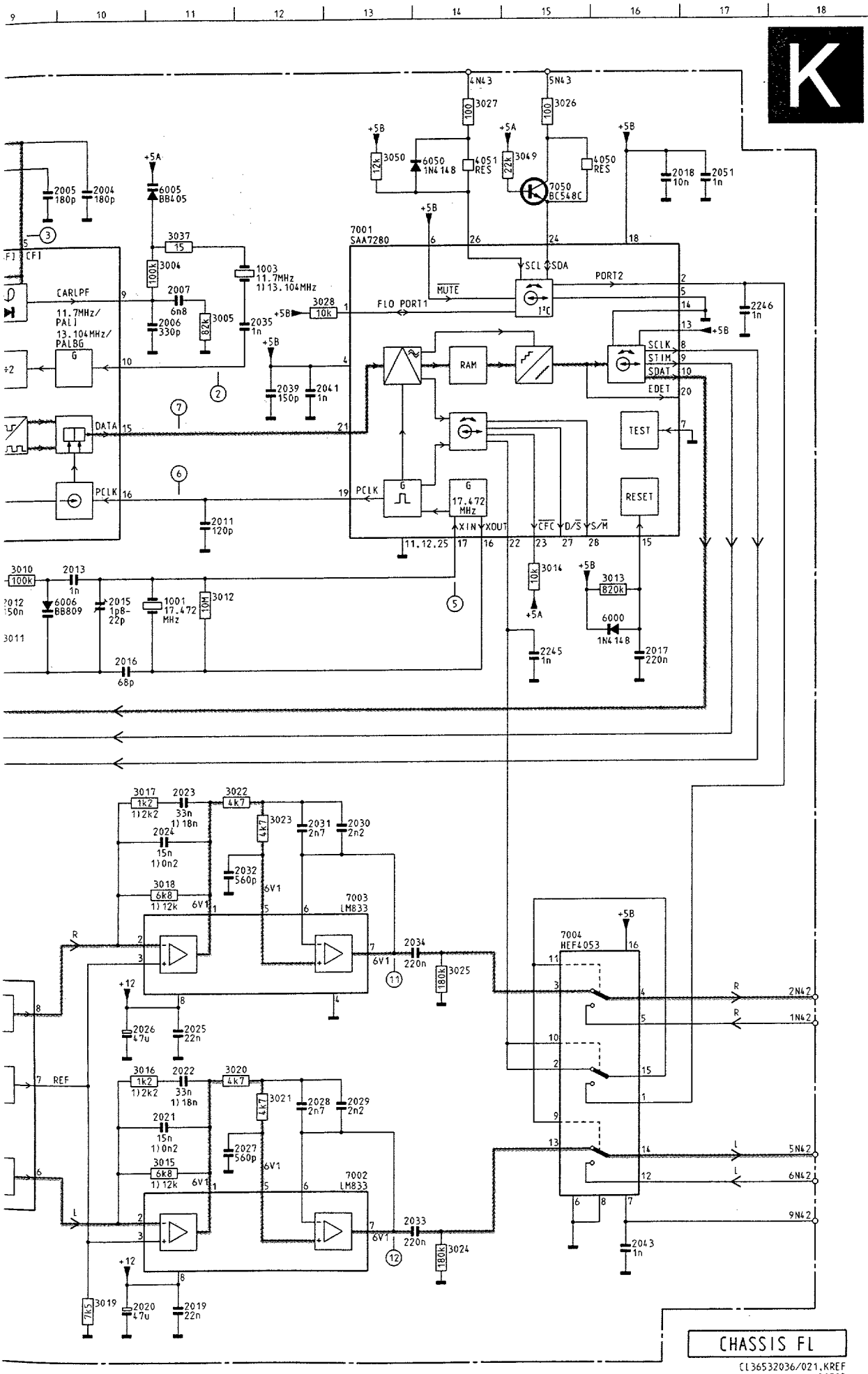

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	2011	F11
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C	2017	G16
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	2020	O10
	2021	M11
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	3004	C11
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L	3037	C11
	3049	B15
	3050	B13
	4005	H 2
	4050	B16
	4051	B14
	4100	E 6
M	5000	B 9
	5001	B 9
	5002	H 3
	5003	H 3
	6000	G16
	6005	B11
	6006	G 9
	6050	B14
N	7000	C 7
	7001	C13
	7002	M13
	7003	J13
	7004	K15
	7007	K 7
	7008	D 5
	7009	D 6
O	7050	B15

P16	C2	21
P17	C4	21
P51	B5	21
P54	A5	21
P56	A1	21
P57	A1	21
1155	A4	21
1201	B4	21
1212	B4	21
1500	B2	21
1600	B5	21
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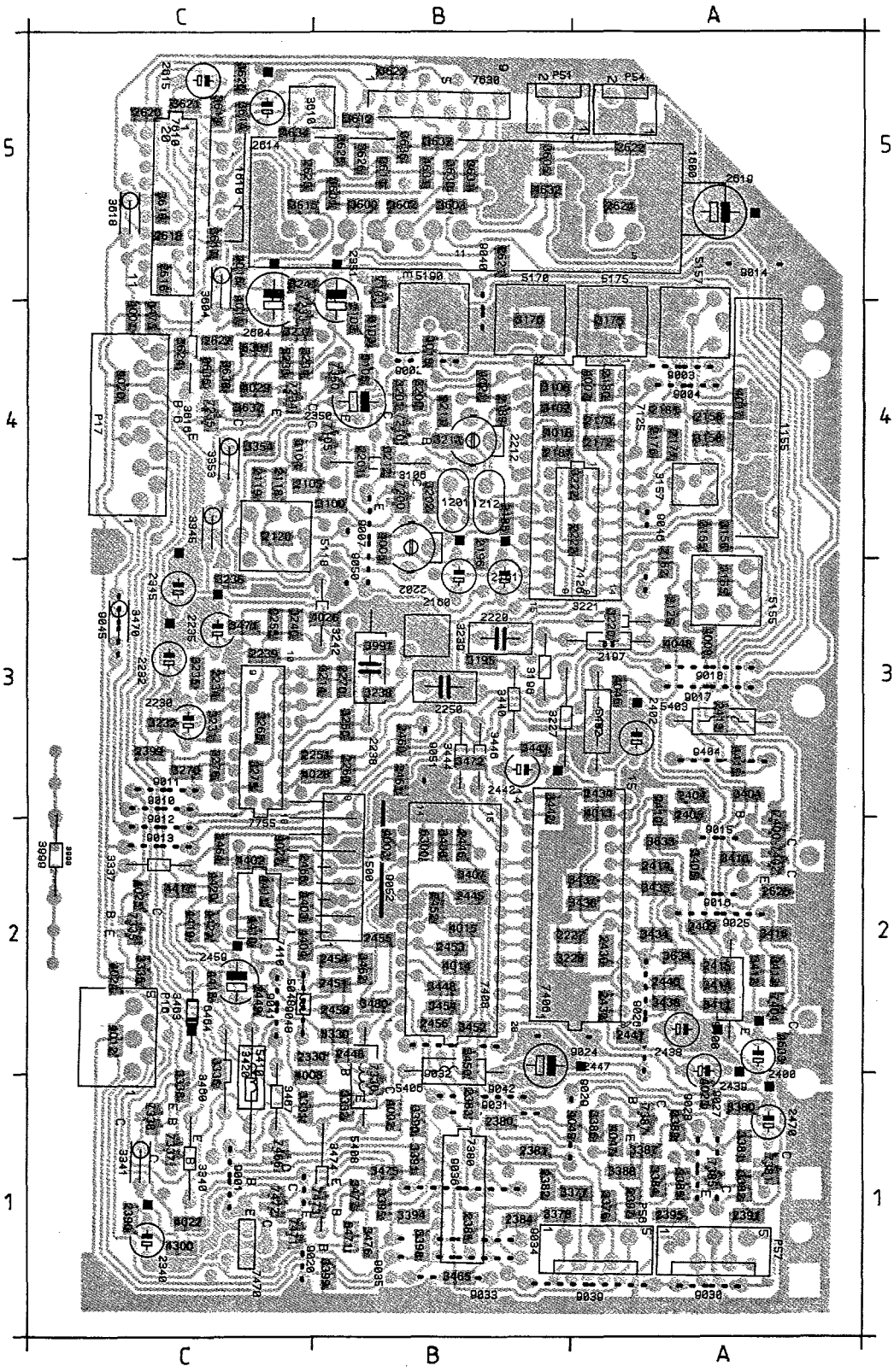
2103	B4	21
2105	C4	21
2118	C4	21
2119	C4	21

PIP panel



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2003	C 6
2004	B10
2005	B 9
2006	D11
2007	C11
2008	G 6
2009	B 7
2010	G 7
2011	F11
2012	G 9
2013	F10
2014	G 8
2015	G10
2016	G10
2017	G16
2018	B16
2019	O11
2020	O10
2021	M11
2022	L11
2023	I11
2024	I11
2025	L11
2026	L10
2027	M12
2028	L12
2029	L13
2030	I13
2031	I12
2032	J12
2033	N14
2034	K14
2035	D12
2036	C 4
2037	C 5
2038	D 5
2039	D12
2040	J 8
2041	D12
2042	G 8
2043	N16
2050	I 3
2051	B17
2245	G15
2246	D17
3000	C 2
3001	D 4
3002	B 8
3003	B 8
3004	C11
3005	D11
3006	H 2
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3008	G 7
3009	E 6
3010	F 9
3011	G 9
3012	G11
3013	G16
3014	F15
3015	M11
3016	L10
3017	I10
3018	J11
3019	D10
3020	L12
3021	L12
3022	I12
3023	I12
3024	N14
3025	K14
3026	A15
3027	A14
3028	C13
3029	J 2
3030	C 4
3031	D 5
3032	C 5
3033	C 6
3034	C 6
3035	D 6
3036	D 1
3037	C11
3049	B15
3050	B13
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4050	B16
4051	B14
4100	E 6
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5001	B 9
5002	H 3
5003	H 3
6000	G16
6005	B11
6006	G 9
6050	B14
7000	C 7
7001	C13
7002	M13
7003	J13
7004	K15
7007	K 7
7008	D 5
7009	D 6
7050	B15

P16	C2	2120	C4	2196	B4	2251	C3	2391	A1	2438	A2	2456	B2	2624	A5	3195	B3	3234	C4
P17	C4	2125	A3	2197	A3	2255	C3	2395	A1	2439	A2	2459	C2	2625	A2	3196	B3	3235	C3
P51	B5	2155	A4	2201	B4	2260	B3	2397	A1	2440	A2	2460	B3	2627	C4	3200	B4	3236	C3
P54	A5	2158	A4	2202	B4	2270	B3	2399	C3	2441	A2	2461	B3	3100	B4	3201	B4	3237	C4
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1212	B4	2172	A4	2227	B2	2351	B4	2409	A2	2448	B2	2615	C5	3107	B4	3220	A3	3242	B3
1500	B2	2176	A4	2230	C3	2380	B1	2410	A3	2449	C2	2616	C5	3108	B4	3221	A3	3250	B3
1600	B5	2177	A4	2232	C3	2381	B1	2413	A3	2450	B2	2618	C5	3155	A3	3222	B4	3265	C3
1610	C5	2180	A4	2234	C3	2382	B1	2414	A2	2451	B2	2619	A5	3156	A4	3227	B3	3270	C3
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2118	C4	2187	B4	2239	C3	2385	B1	2432	A2	2454	B2	2622	A5	3170	B4	3232	C3	3330	B2
2119	C4	2189	B4	2250	B3	2390	C1	2434	A3	2455	B2	2623	C5	3175	A4	3233	C4	3331	C1

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3378	B1	4012	C2	9013	C2						
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3437	A2	4418	C2	9404	A3						
3438	A2	4419	C2								
3440	B3	4420	C2								
3441	B3	4421	C2								
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3444	B3	4632	B5								
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3452	B2	5118	C4								
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3460	C1	5157	A4								
3462	B2	5170	B4								
3463	C2	5175	A4								
3464	C2	5190	B4								
3465	B1	5400	A2								
3467	C1	5402	A3								
3471	C3	5403	A3								
3472	B3	5406	B1								
3473	C4	5408	B1								
3474	B1	5410	C1								
3475	B1	6300	B2								
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3477	B1	6464	C2								
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3602	B5	7125	B4								
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3604	C4	7200	B4								
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3612	B5	7235	C4								
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3617	C5	7350	B4								
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3619	C5	7381	A1								
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3622	B5	7400	A2								
3624	C4	7402	A2								
3625	B5	7404	A2								
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3630	B5	7408	B2								
3631	B5	7410	C2								
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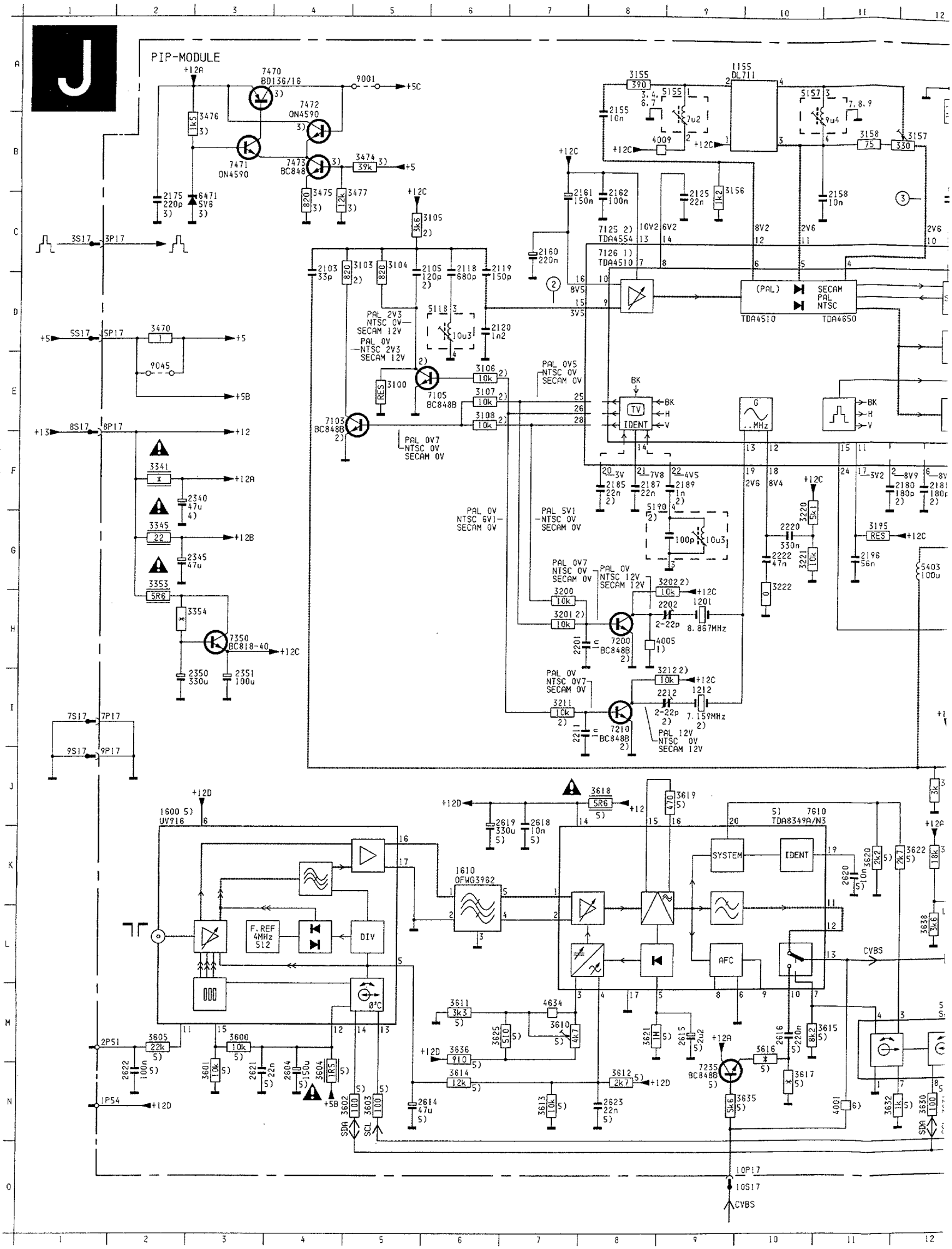
3635	C4	7472	C1								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7473 BC848
9001
+5C
+5
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3474 39k
3475 820
3477 12k
2175 220p
6471 5V6
3105 3k6
3S17 3P17
5S17 5P17
9S17 9P17
7S17 7P17
8S17 8P17
3470
9045
+5B
+12
+13
3341
3345 22
3353 5R6
3354
7350 BC818-40
+12C
2340 47u
2345 47u
2350 330u
2351 100u
2103 33p
3103 820
3104 820
2105 120p
2118 680p
2119 150p
5118 10u3
2120 1n2
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PAL 0V NTSC 2V3 SECAM 12V
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3107 10k
3108 10k
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7103 BC848B
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PAL 0V5 NTSC 0V SECAM 0V
PAL 0V NTSC 6V1 SECAM 0V
PAL 5V1 NTSC 0V SECAM 0V
1155 DL711
3155 390
5155
2155 10n
4009
3156 1k2
2161 150n
2162 100n
2125 22n
2158 10n
3158 75
3157 330
5157
2160 220n
7125 TDA4554
7126 TDA4510
TDA4510
TDA4650
(PAL) SECAM PAL NTSC
BK H V
TV IDENT
G ..MHz
2185 22n
2187 22n
2189 1n
5190 100p 10u3
3220 5k1
3221 10k
2220 330n
2222 47n
3222
3195 RES
2196 56n
5403 100u
PAL 0V7 NTSC 0V SECAM 0V
PAL 0V NTSC 12V SECAM 12V
3200 10k
3201 10k
3202 10k
2202 2-22p
1201 8.867MHz
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2201
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2212 2-22p
1212 7.159MHz
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PAL 12V NTSC 0V SECAM 12V
1600 UV916
+12D
1610 OFWG3962
F. REF 4MHz 512
DIV
Ø°C
7610 TDA8349A/N3
SYSTEM
IDENT
AFC
CVBS
3618 SR6
3619 470
2619 330u
2618 10n
3620 2k2
3622 2k7
3638 3k6
3611 3k3
4634
3610 4k7
3625 510
2621 1M
2615 2u2
3615 8k2
2616 220n
3616
3617
7235 BC848B
3636 910
3614 12k
3612 2k7
2622 100n
3605 22k
3600 10k
3601 10k
2621 22n
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3602 100
3603 100
SDA
SCL
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2P51
1P54
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CVBS

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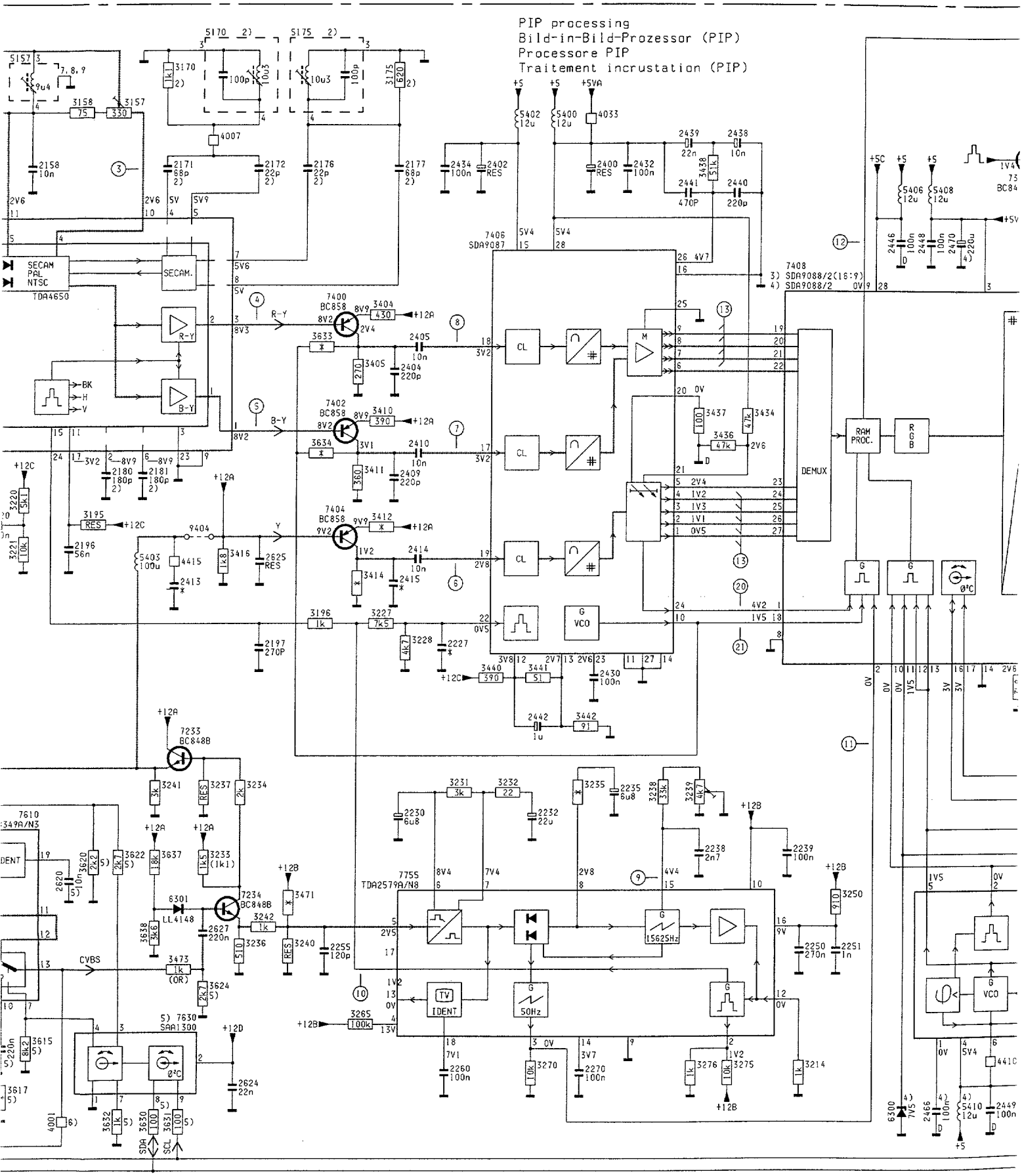

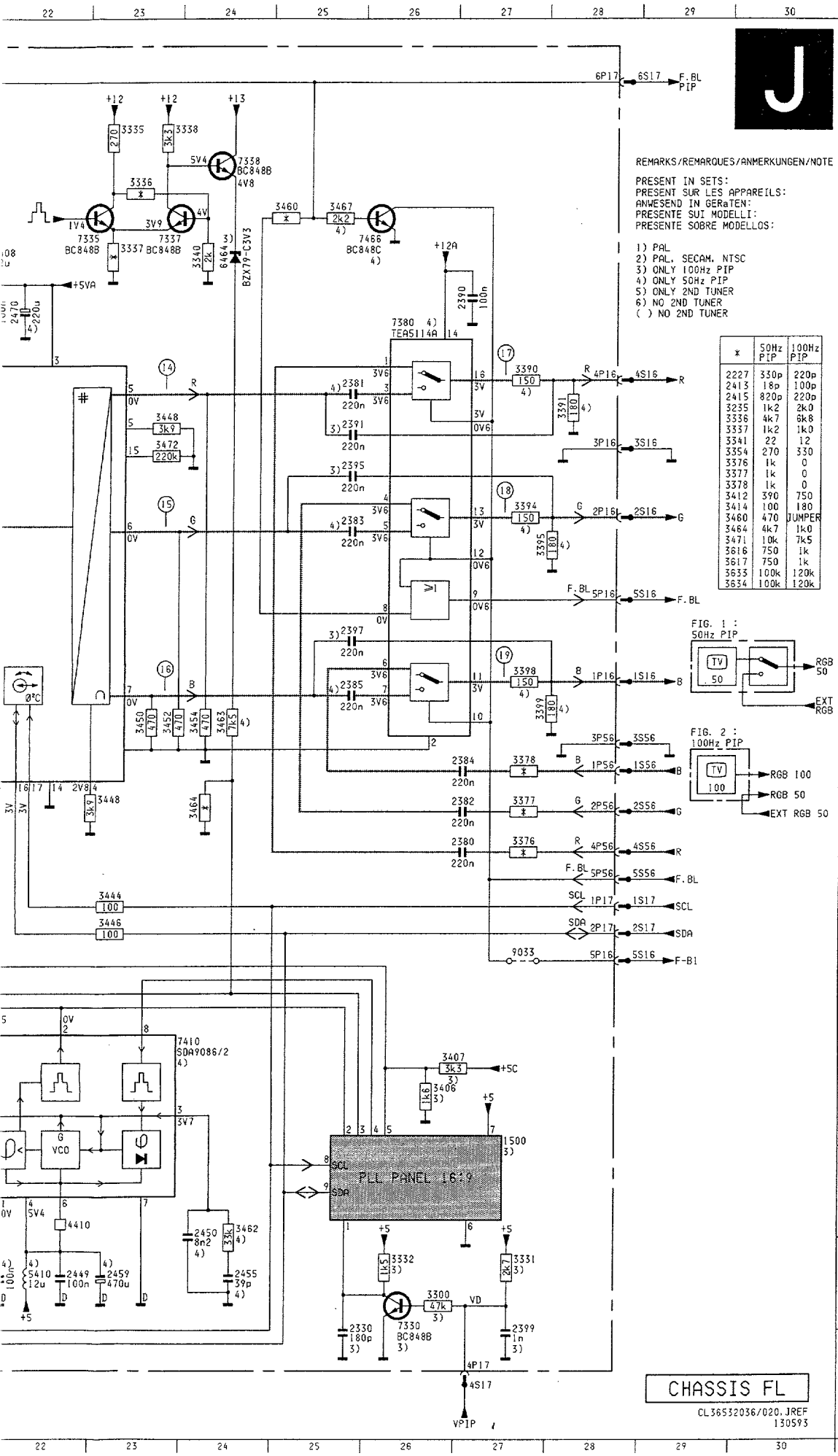

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A	1600	J 2	3214	M20	4415	G12
	1610	K 6	3220	G10	4634	M 7
	2103	D 4	3221	G10	5118	D 5
	2105	D 5	3222	G10	5155	A 8
	2118	D 6	3227	H15	5157	A10
	2119	D 6	3228	H15	5170	A13
	2120	D 6	3231	J16	5175	A14
	2125	C 9	3232	J16	5190	G 8
B	2155	B 8	3233	K13	5400	B17
	2158	C11	3234	J13	5402	B16
	2160	C 7	3235	J17	5403	G12
	2161	C 7	3236	L13	5406	C21
	2162	C 8	3237	J13	5408	C21
	2171	C12	3238	J18	5410	N22
	2172	C13	3239	J19	6300	N21
	2175	C 2	3240	L14	6301	K12
C	2176	C14	3241	J12	6464	C24
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	2181	F12	3265	M15	7105	E 5
	2185	F 8	3270	M17	7125	C 8
	2187	F 8	3275	M19	7126	C 8
	2189	F 9	3276	M19	7200	H 8
D	2196	G11	3300	N26	7210	I 8
	2197	H13	3331	N27	7233	I12
	2201	H 7	3332	N26	7234	K13
	2202	H 9	3335	A23	7235	N 9
	2211	I 7	3336	B23	7330	N26
	2212	I 9	3337	C23	7335	C23
	2220	G10	3338	A23	7337	C23
	2222	G10	3340	C24	7338	B24
E	2227	H16	3341	F 2	7350	H 3
	2230	J15	3345	G 2	7380	D26
	2232	J17	3353	G 2	7400	D14
	2235	J18	3354	H 2	7402	E14
	2238	K19	3376	I27	7404	G14
	2239	K20	3377	I27	7406	C16
	2250	L20	3378	H27	7408	D20
F	2251	L20	3390	D27	7410	K23
	2255	L14	3391	D28	7466	C26
	2260	M16	3394	F27	7470	A 3
	2270	M17	3395	F27	7471	B 3
	2330	O25	3398	G27	7472	A 4
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	2345	G 2	3404	D15	7610	J11
	2350	I 2	3405	E15	7630	M13
G	2351	I 3	3406	L26	7755	K15
	2380	I27	3407	L26	9001	A 5
	2381	D25	3410	F15	9033	J27
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	2385	H25	3416	G13		
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	2395	E25	3437	E19		
	2397	G25	3438	C19		
	2399	O27	3440	I16		
	2400	C17	3441	I17		
	2402	C16	3442	I17		
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	2414	G15	3452	H23		
	2415	H15	3454	H24		
	2430	I17	3460	B25		
	2432	C18	3462	M24		
J	2434	C16	3463	H24		
	2438	B19	3464	I24		
	2439	B18	3467	B25		
	2440	C19	3470	D 2		
	2441	C18	3471	K14		
	2442	I17	3472	E23		
	2446	C21	3473	L12		
K	2448	C21	3474	B 5		
	2449	N22	3475	B 4		
	2450	M24	3476	B 3		
	2455	N24	3477	B 4		
	2459	N23	3600	M 3		
	2466	N21	3601	N 3		
	2470	C22	3602	N 5		
	2604	N 4	3603	N 5		
L	2614	N 5	3604	N 4		
	2615	M 9	3605	M 2		
	2616	M10	3610	M 7		
	2618	K 7	3611	M 6		
	2619	K 6	3612	N 8		
	2620	K11	3613	N 7		
	2621	N 3	3614	N 6		
M	2622	N 2	3615	M11		
	2623	N 8	3616	M10		
	2624	N13	3617	N10		
	2625	G13	3618	J 8		
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	3100	E 5	3620	K11		
	3103	C 5	3621	M 8		
	3104	C 5	3622	K12		
N	3105	C 5	3624	L13		
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	3156	B 9	3633	E14		
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	3158	B11	3635	N10		
O	3170	A12	3636	M 6		
	3175	A15	3637	K12		
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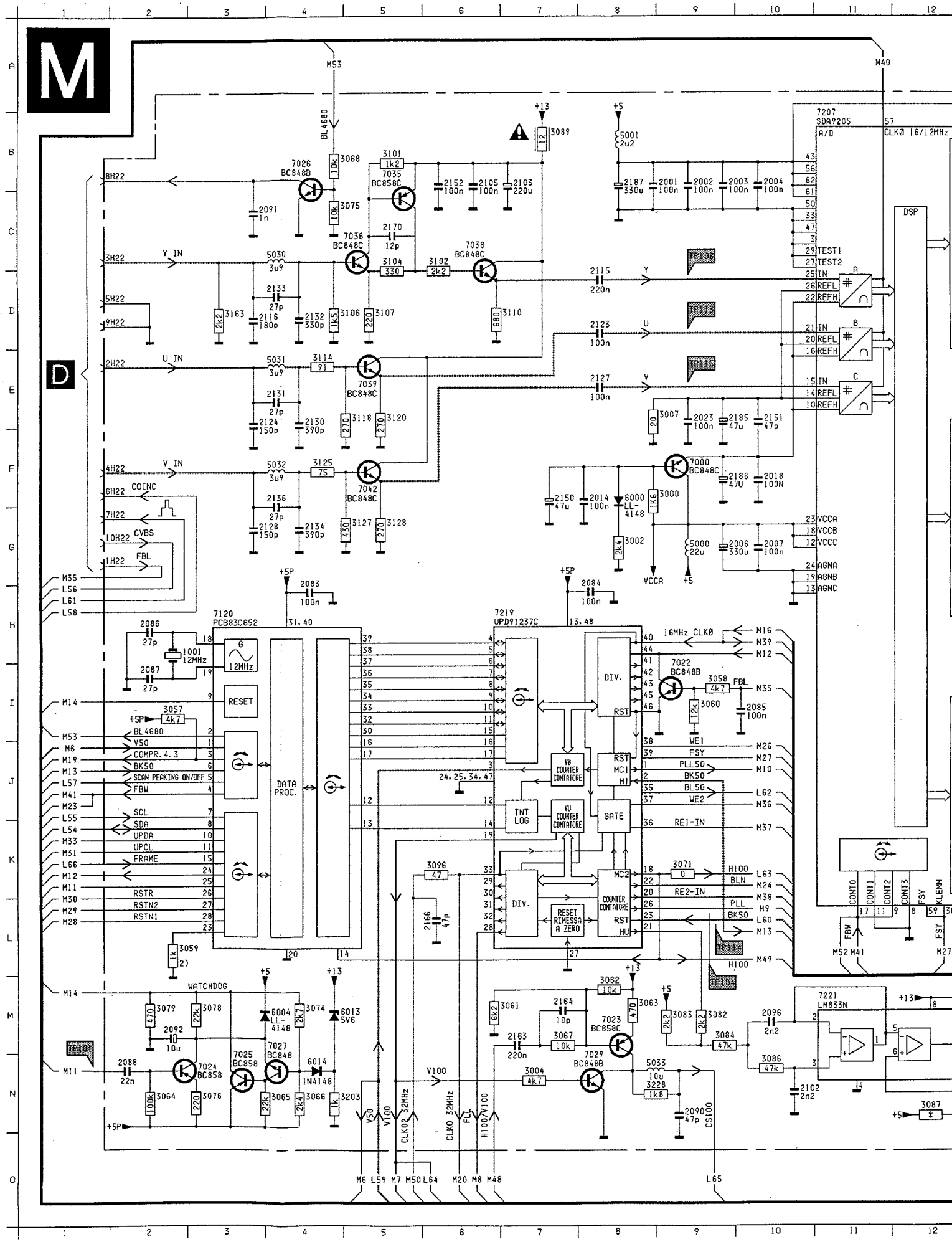
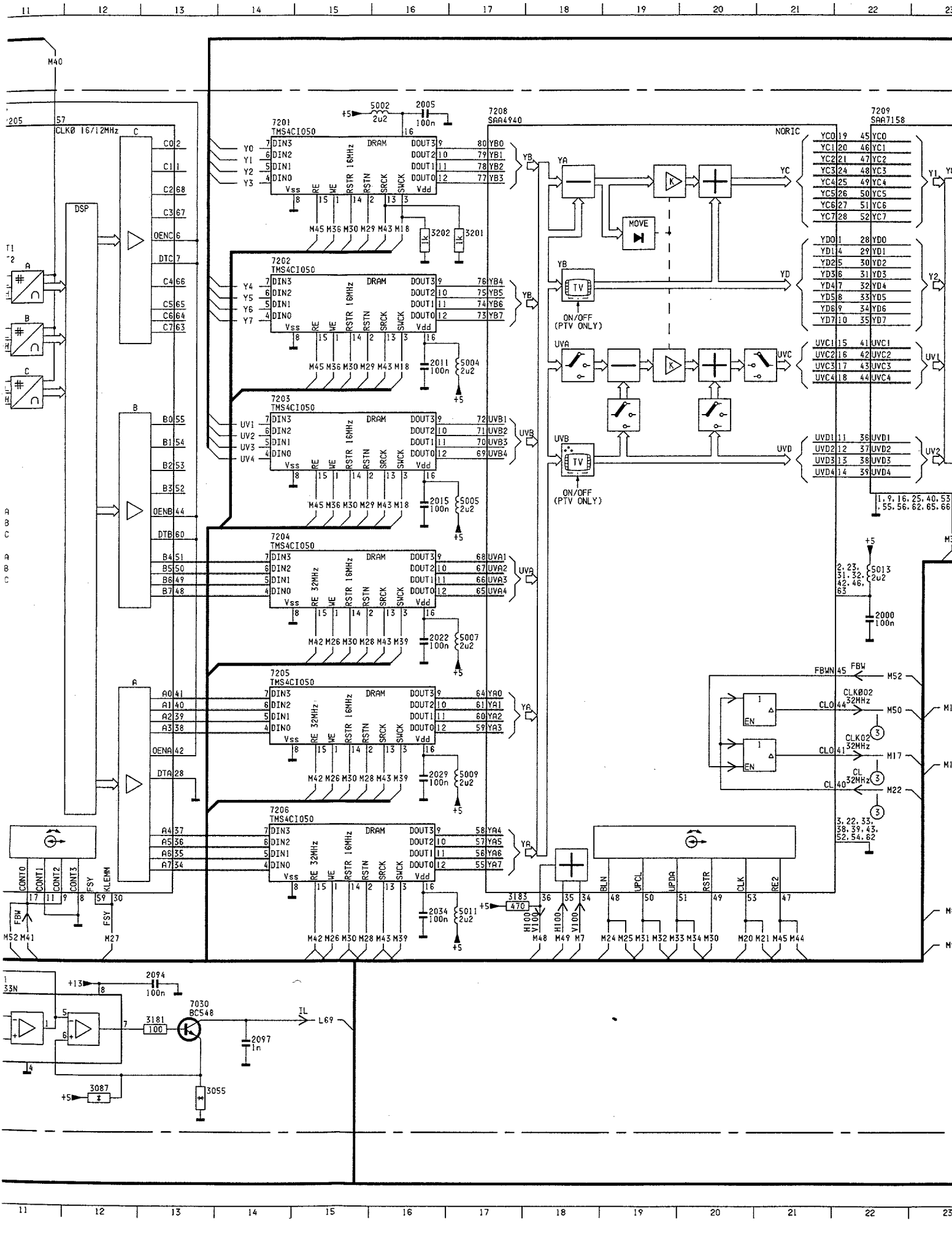
	3200	H 7	4005	H 8		

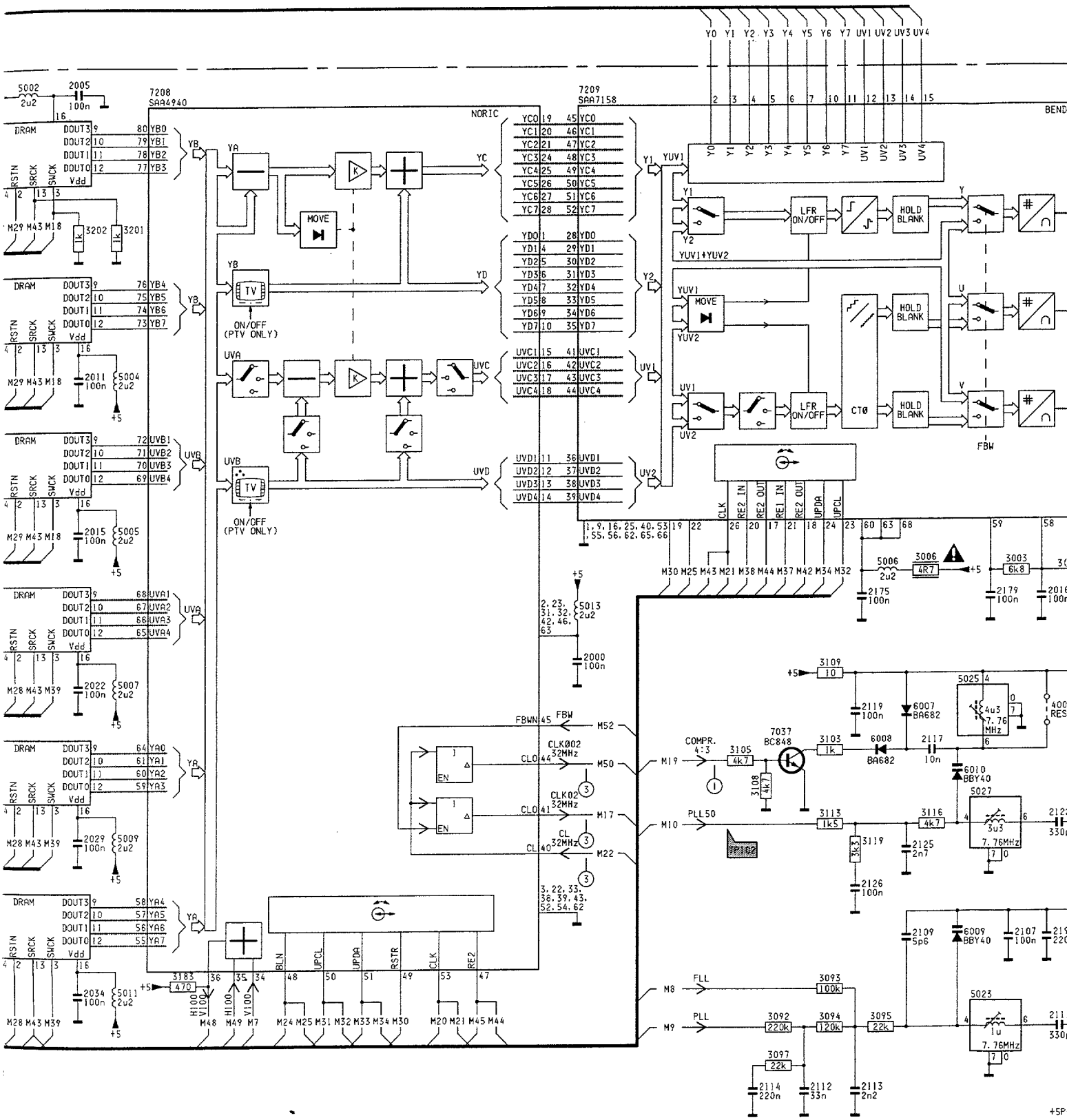
LFR box FLx.24/.26 (Digital Scan)



PCS 41741

LFR box FLx.24/.26 (Digital Scan)





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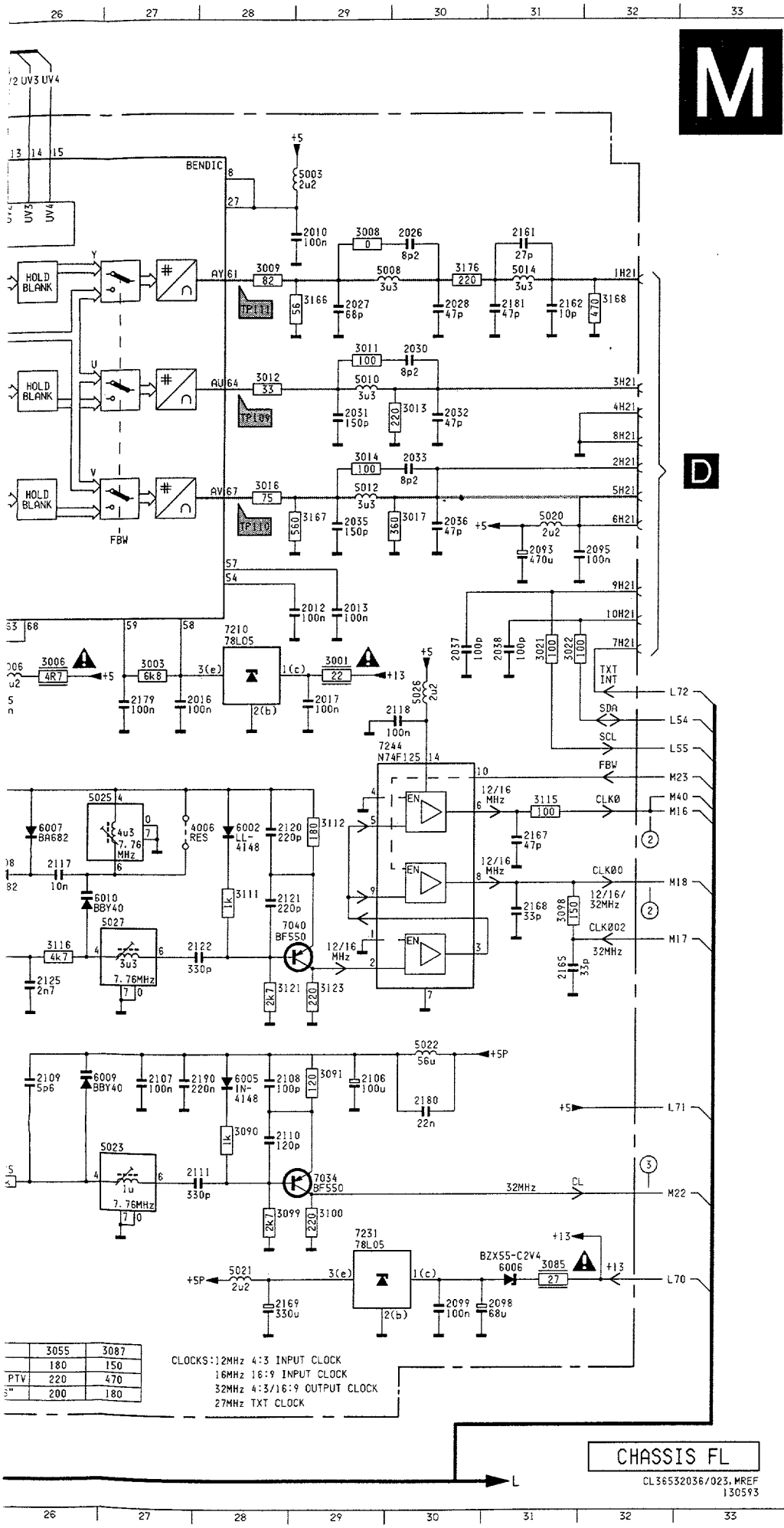
4:3	180	150
16:9 & PTV	220	470
16:9 36"	200	180

CLOCKS

LFR box FLx.24/.26 (Digital Scan)



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	180	150
PTV	220	470
3"	200	180

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2000	H22	3022	G31	7027	M 4
2001	B 9	3055	N13	7029	N 8
2002	B 9	3057	I 2	7030	M13
2003	B 9	3058	I 9	7034	L29
2004	B10	3059	L 2	7035	B 5
2005	B16	3060	I 9	7036	C 5
2006	G 9	3061	M 6	7037	I24
2007	G10	3062	M 8	7038	C 6
2010	C29	3063	M 8	7039	E 5
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2012	F29	3065	N 4	7042	F 5
2013	F29	3066	N 4	7120	H 3
2014	F 8	3067	M 7	7201	B14
2015	G16	3068	B 4	7202	D14
2016	G27	3071	K 9	7203	E14
2017	G29	3074	M 4	7204	G14
2018	F10	3075	C 4	7205	I14
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2027	C29	3082	M 9	7209	B22
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2031	D29	3086	N10	7231	M29
2032	D30	3087	N12	7244	H29
2033	E30	3089	B 7		
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2116	D 3	3128	G 5		
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2125	J26	3202	C16		
2126	K25	3203	N 4		
2127	E 8	3228	N 8		
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2131	E 4	5001	B 8		
2132	D 4	5002	B16		
2133	D 4	5003	B29		
2134	G 4	5004	E17		
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2162	C31	5010	D29		
2163	M 7	5011	L17		
2164	M 7	5012	E29		
2165	J31	5013	G22		
2166	L 6	5014	C31		
2167	I31	5020	E31		
2169	N28	5021	M28		
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2179	G27	5025	H26		
2180	K30	5026	G30		
2181	C31	5027	J27		
2185	E 9	5030	C 4		
2186	F 9	5031	E 4		
2187	B 8	5032	F 4		
2190	K27	5033	N 8		
3000	F 9	6000	F 8		
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3007	E 9	6009	K26		
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3009	C28	6013	M 4		
3011	D29	6014	N 4		
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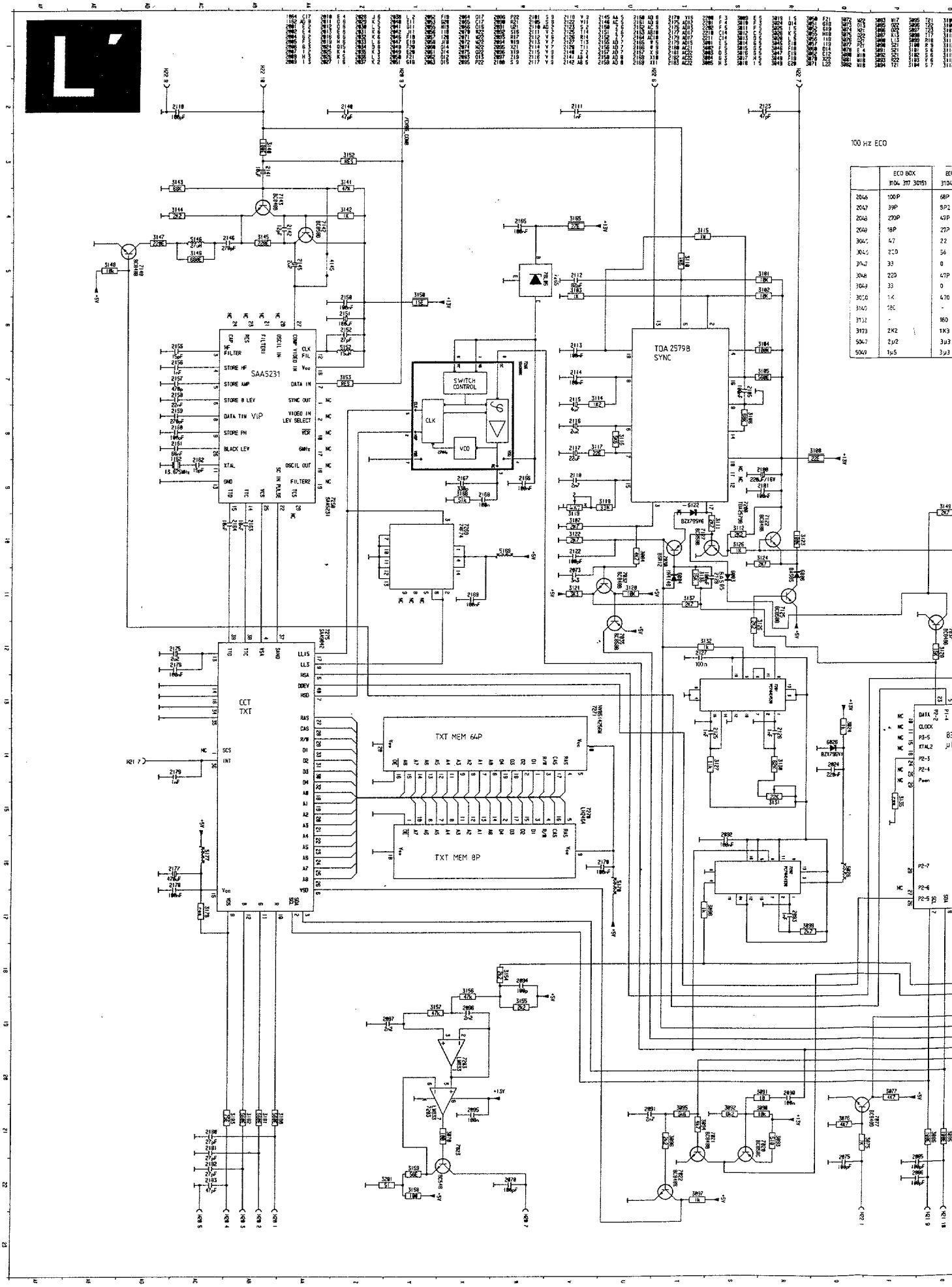

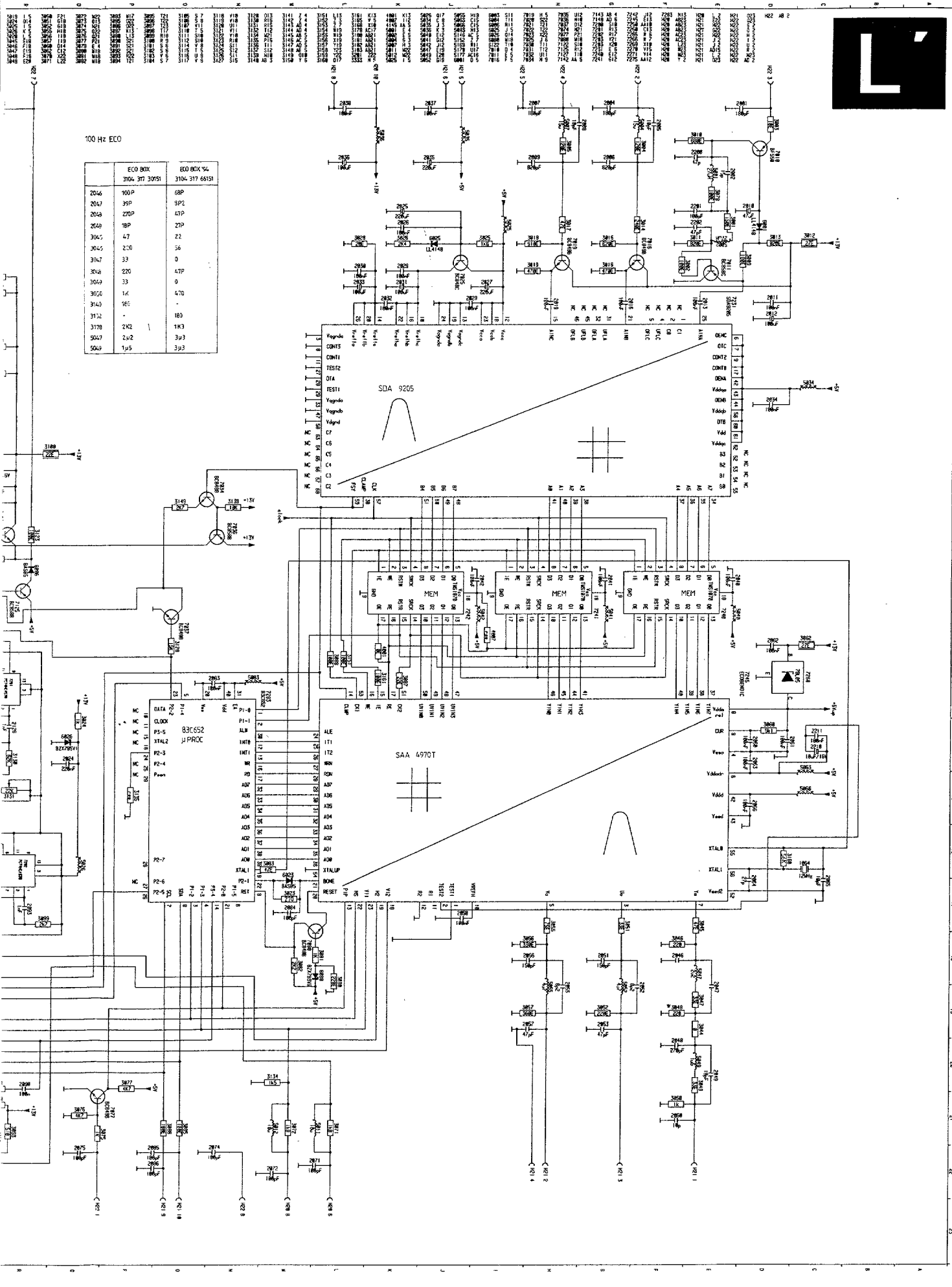
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3045 47 22
3046 220 56
3047 33 0
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3049 33 0
3050 1K 470
3140 180 -
3172 - 180
3178 2K2 1K3
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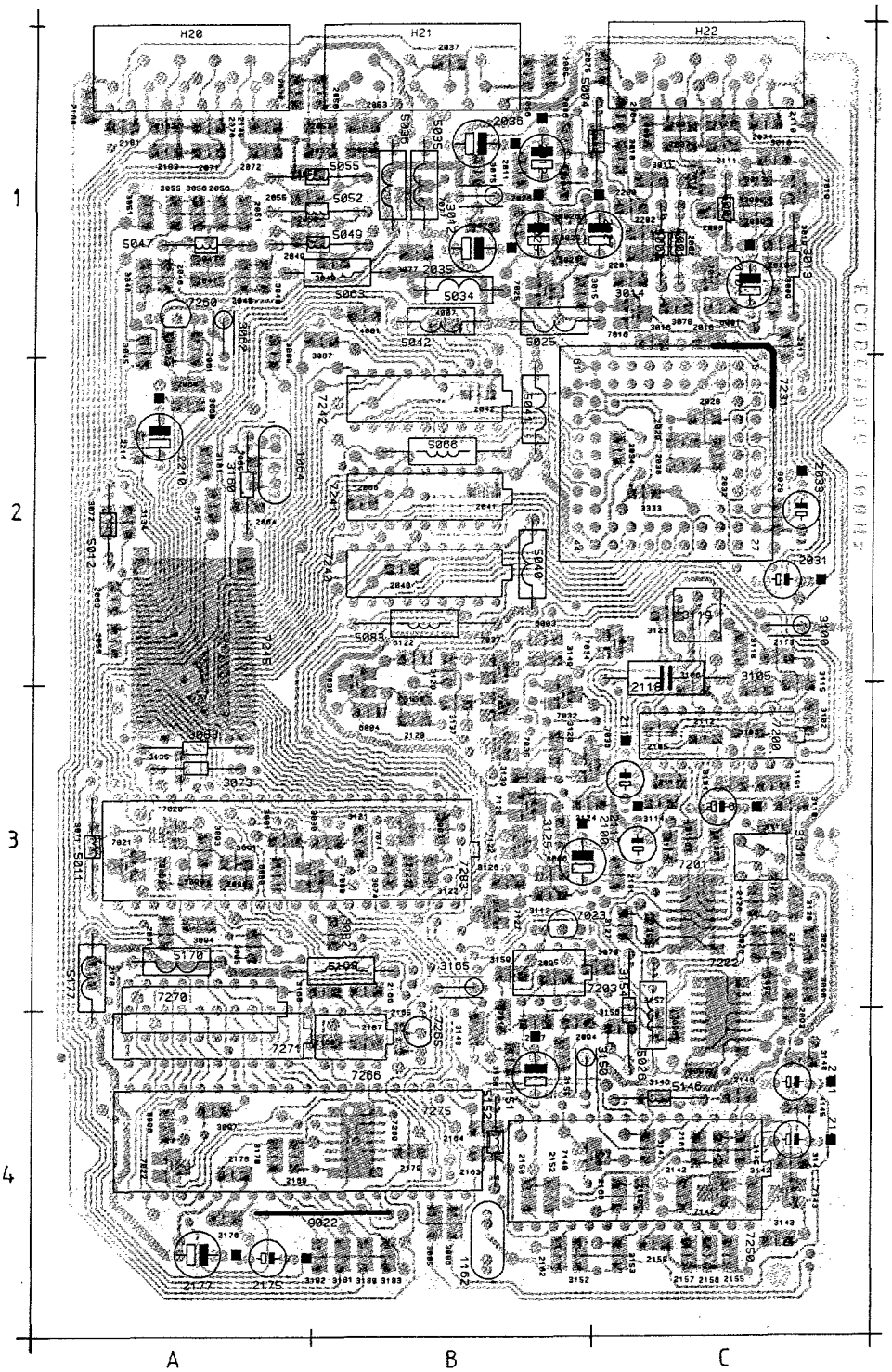
100 Hz / TXT



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H22 C1	2019 C1	2040 B2	2061 A1	2092 C3	2117 C3	2155 C4	2175 A4	3009 C1
1064 A2	2024 C3	2041 B2	2062 A1	2093 C3	2118 C2	2156 C4	2176 A4	3010 C1
1162 B4	2025 B1	2042 B2	2063 A2	2094 B4	2122 B3	2157 C4	2177 A4	3011 C1
2001 C1	2026 B1	2046 A1	2064 A2	2095 B3	2123 C1	2158 C4	2178 A4	3012 B1
2002 C1	2027 C1	2047 A1	2065 A2	2096 C4	2125 C3	2159 C4	2179 B4	3013 C1
2004 C1	2028 C2	2048 A1	2066 B2	2097 B4	2126 C3	2160 C4	2181 A1	3014 C1
2005 C1	2029 C2	2049 A1	2070 A1	2100 B3	2127 C3	2161 C4	2182 A1	3015 B1
2006 B1	2030 C2	2050 B1	2071 A1	2101 C3	2128 B3	2162 B4	2183 A1	3016 C1
2007 C1	2031 C2	2051 A1	2072 A1	2105 C3	2140 A1	2163 B4	2200 C1	3017 C1
2008 C1	2032 C2	2052 A1	2074 C1	2110 C1	2141 C4	2164 B4	2201 C1	3018 C1
2009 C1	2033 C2	2053 B1	2075 C1	2111 C1	2142 C4	2165 B4	2202 C1	3019 C1
2010 C1	2034 C2	2055 A1	2083 B3	2112 C3	2145 C4	2166 B3	2210 A2	3024 C3
2011 B1	2035 B1	2056 A1	2085 B1	2113 C2	2146 C4	2167 B4	2211 A2	3025 B1
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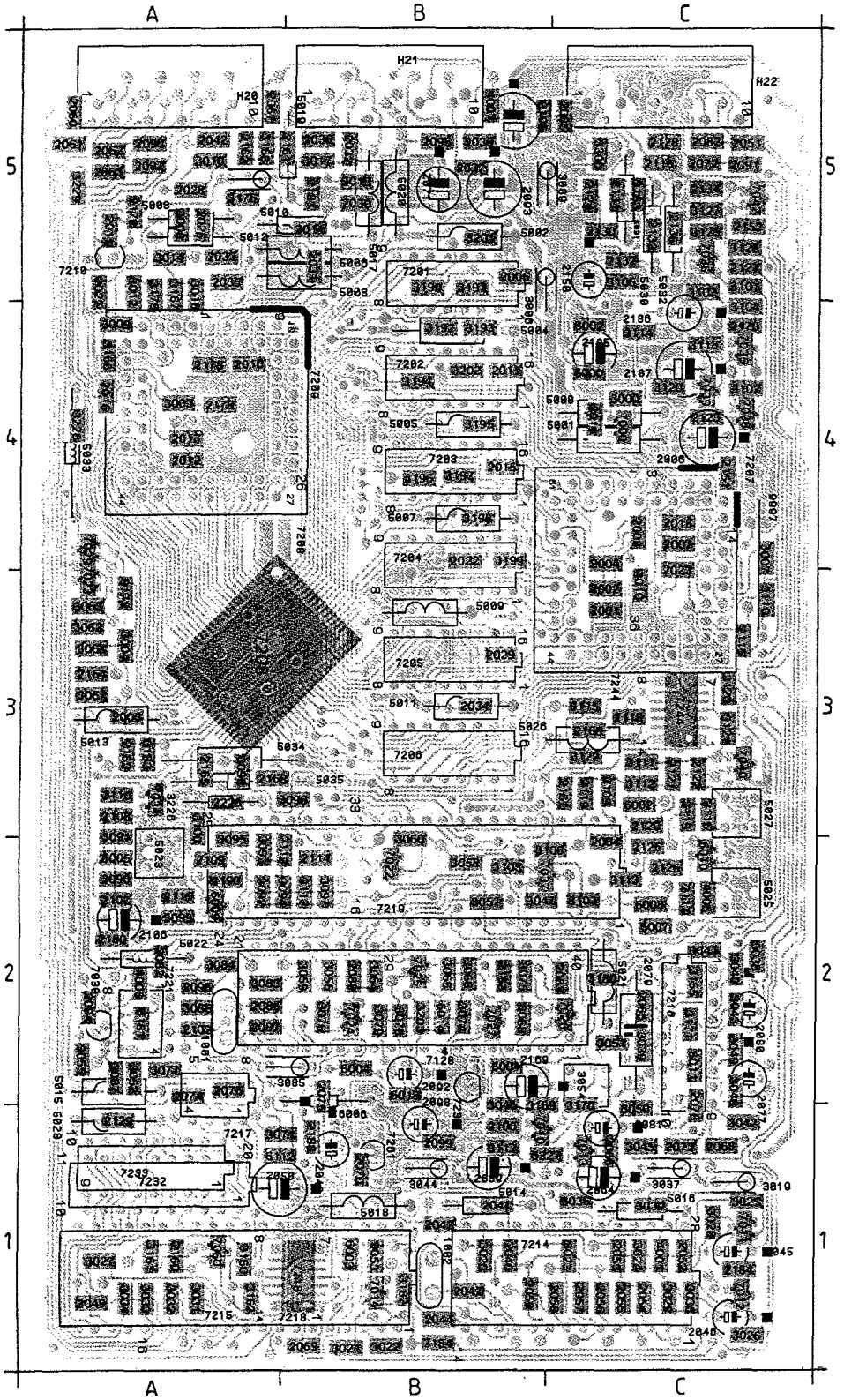
LFR box



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1002	B1	2017	A5	2038	B5	2054	C1	2071	B5	2087	A2	2106	A2	2122	C3	2152	C5	2180	A2
2000	A3	2018	C4	2039	B1	2055	C1	2072	C5	2088	B2	2107	A2	2123	C4	2153	B2	2181	B5
2001	C3	2022	B4	2040	B1	2056	C1	2073	C1	2090	A5	2108	A3	2124	C5	2160	A1	2184	C1
2002	C3	2023	C4	2041	B1	2057	C1	2074	A2	2091	C5	2109	A2	2125	C2	2161	A5	2185	C4
2003	C4	2026	A5	2042	A5	2058	C1	2075	B2	2092	B2	2110	A3	2126	C2	2162	A5	2186	C4
2004	C4	2027	A5	2043	B1	2059	B1	2076	A2	2093	B5	2111	A2	2127	C5	2163	A3	2187	C4
2005	B5	2028	A5	2044	B1	2060	A5	2077	C2	2094	A2	2112	B2	2128	C5	2164	A3	2188	B1
2006	C4	2029	B3	2045	C1	2062	A5	2078	C1	2095	B5	2113	A2	2129	A1	2165	A3	2190	A2
2007	C4	2030	B5	2046	C1	2063	A5	2079	C2	2096	A2	2114	B2	2130	C5	2166	A3	2226	A3
2010	A4	2031	B5	2047	B1	2064	C1	2080	C2	2097	A5	2115	C3	2131	C5	2167	C3	3000	C4
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2012	A4	2033	A5	2049	A1	2066	C1	2082	C5	2099	B1	2117	C2	2133	C5	2169	B2	3002	C4

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3023	C1	3109	C3	6001	B2	3067	A3	5000	C4	3156	C2	3179	A5	3199	B4	5000	C4	4005	A2
3024	C1	3110	C3	6002	C3	3065	B2	4007	B5	3157	C2	3180	C2	3201	B5	5001	C4	4006	C2
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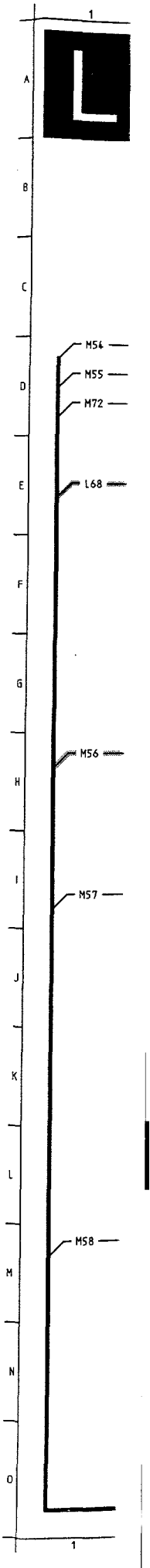

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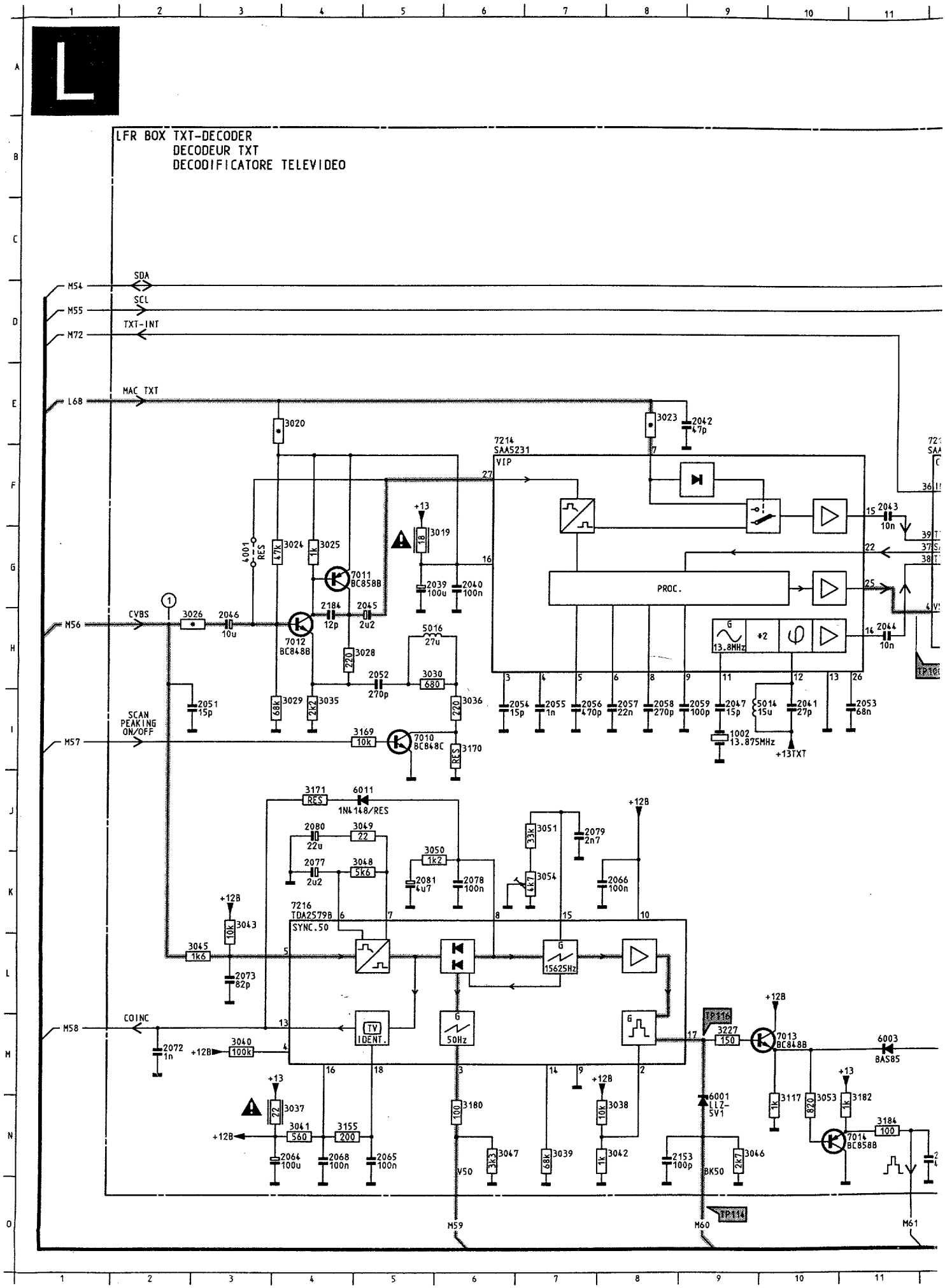

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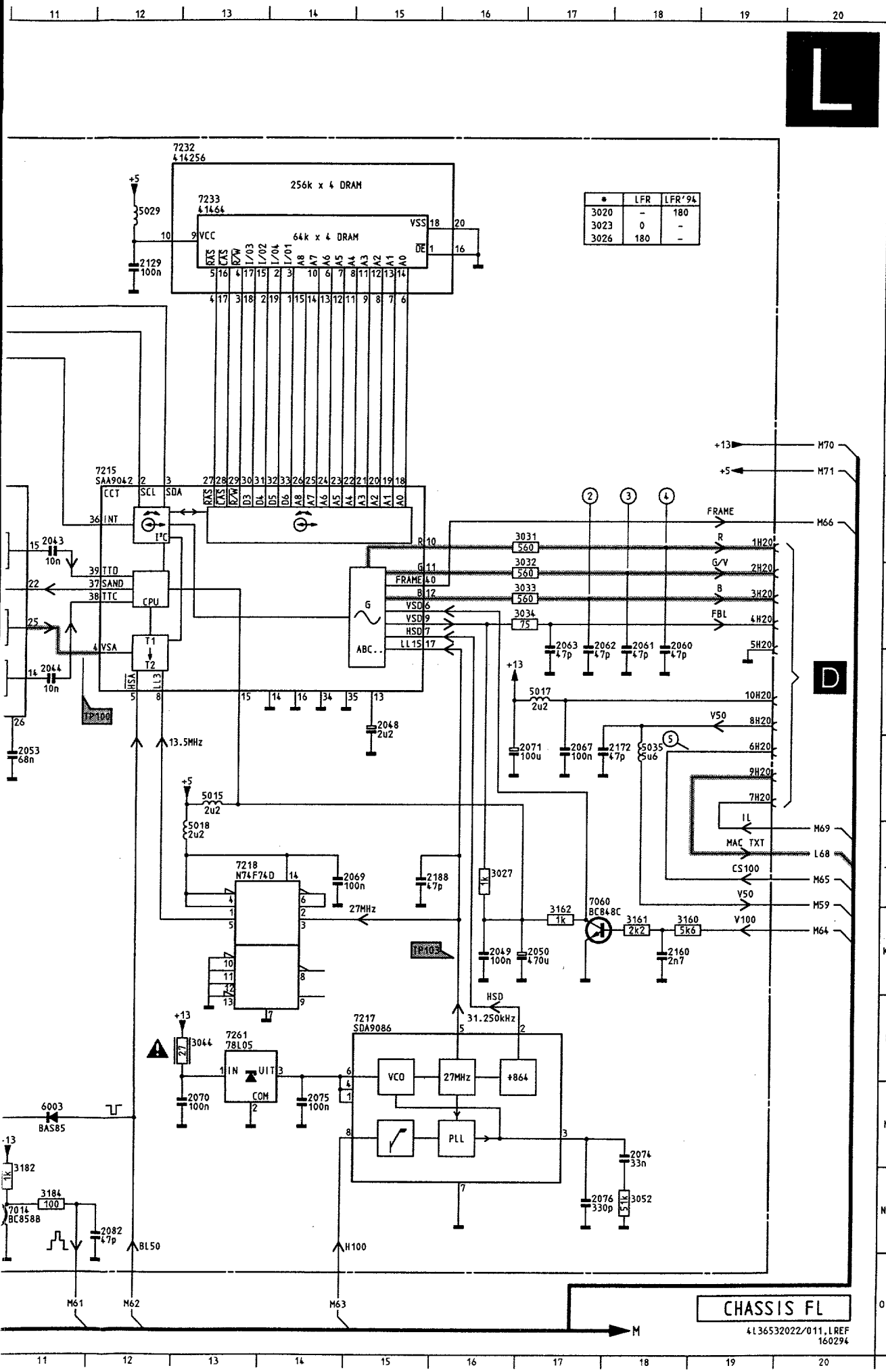

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2041 I10 7233 B13
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5016 H 5
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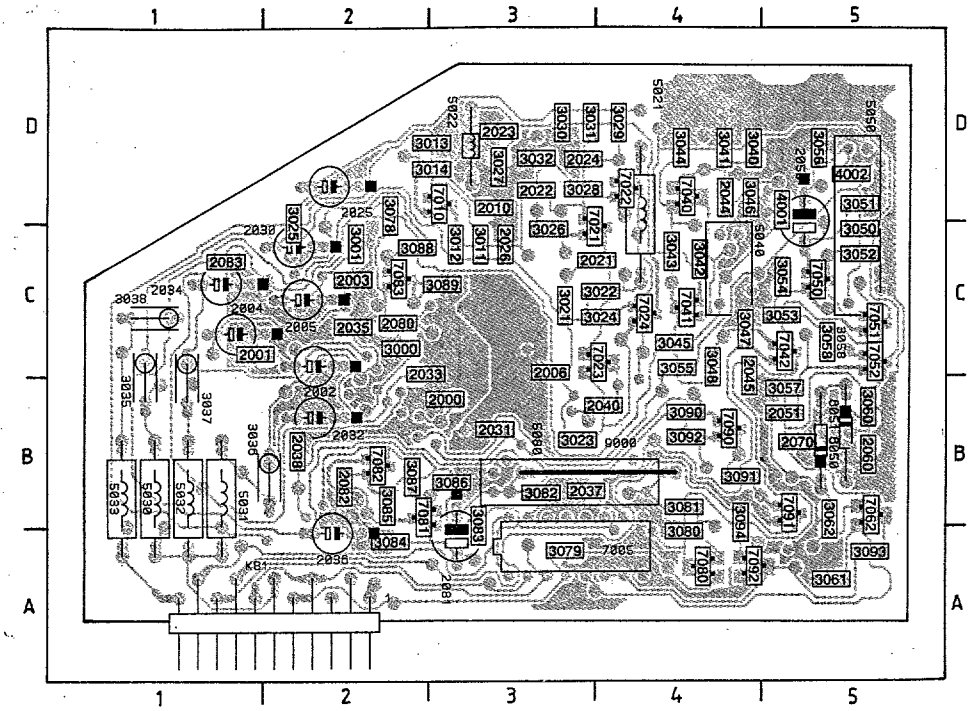

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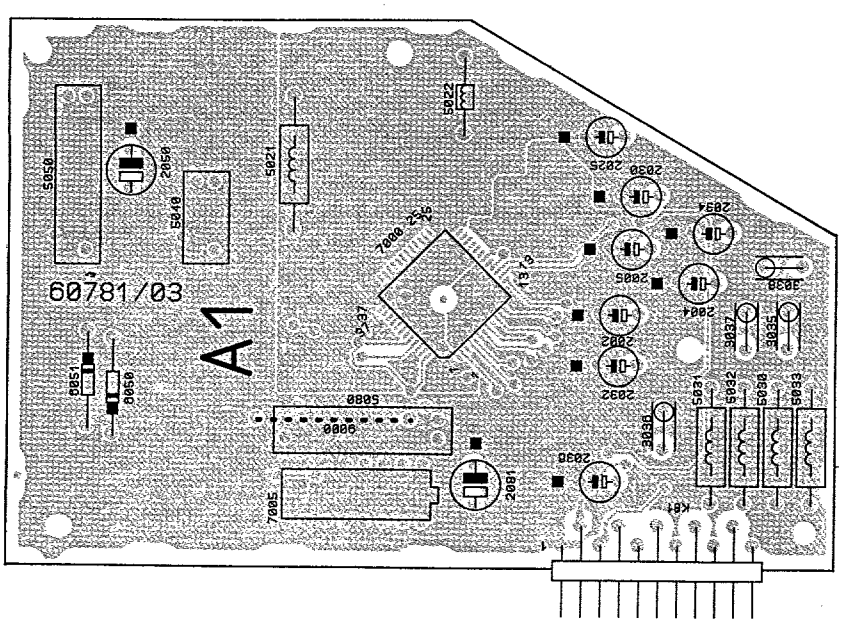
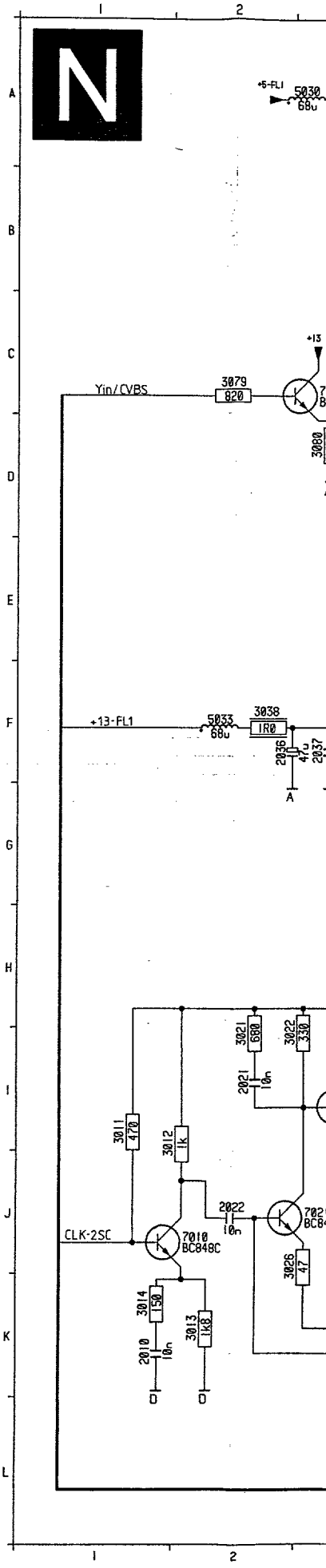
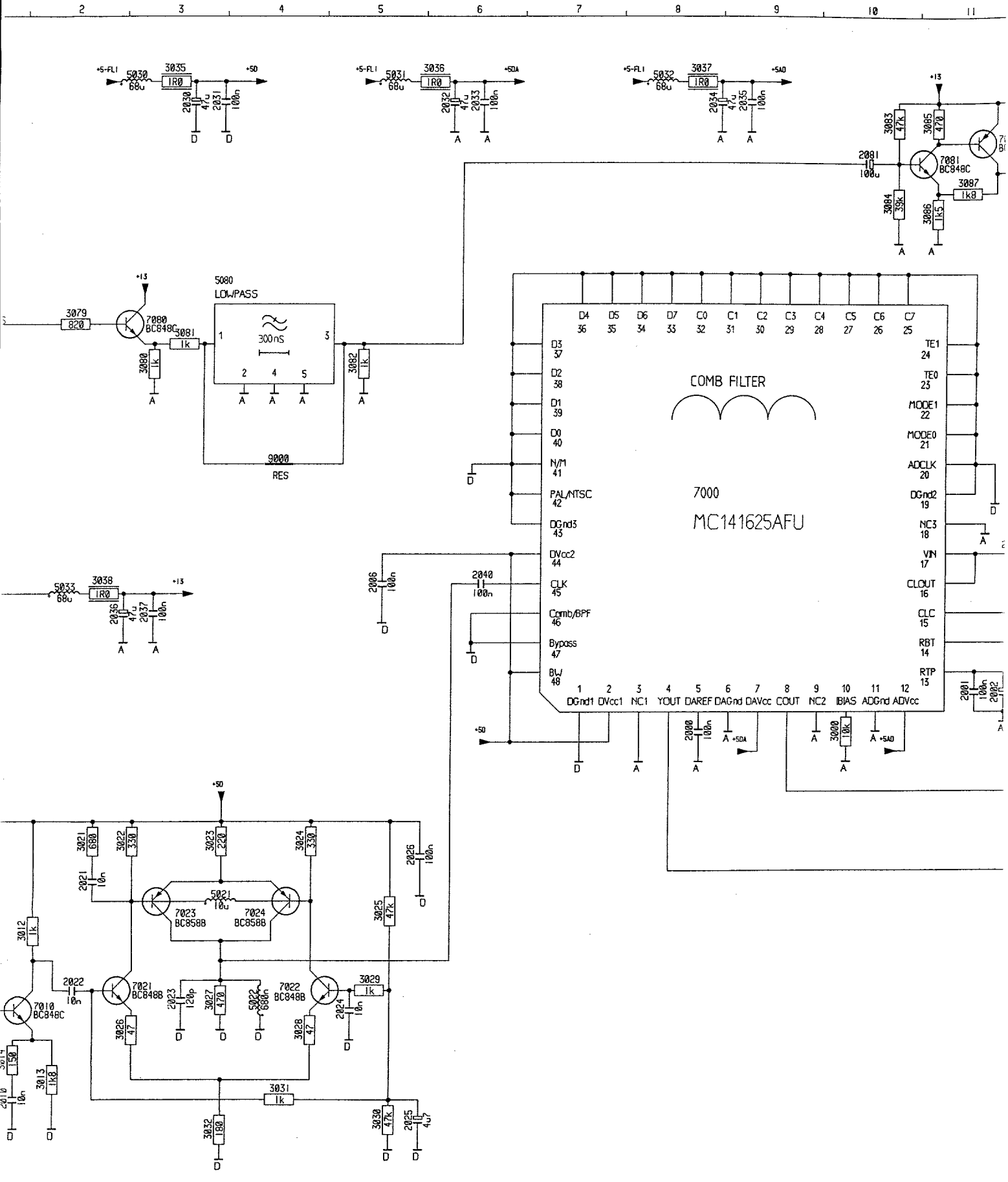
2002 C2	2034 C1	3000 C2	3031 D4	3051 D5	3083 B3	5030 B1	7040 D4	
2003 C2	2035 C2	3001 C2	3032 D3	3052 C5	3084 A2	5031 B1	7041 C4	
2004 C1	2036 A2	3011 C3	3035 B1	3053 C5	3085 B2	5032 B1	7042 C5	
2005 C2	2037 B3	3012 C3	3036 B2	3054 C5	3086 B3	5033 B1	7050 C5	
2006 C3	2038 B2	3013 D3	3037 B1	3055 C4	3087 B2	5040 C4	7051 C5	
2010 D3	2040 B4	3014 D3	3038 C1	3056 D5	3088 C2	5050 C5	7052 C5	
2021 C4	2044 D4	3021 C3	3040 D4	3057 B5	3089 C3	5080 B3	7062 B5	
2022 D3	2045 C4	3022 C4	3041 D4	3058 C5	3090 B4	6050 B5	7080 A4	
2023 D3	2050 D5	3023 B3	3042 C4	3060 B5	3091 B4	6051 B5	7081 B2	
2024 D3	2051 B5	3024 C4	3043 C4	3061 A5	3092 B4	7000 C3	7082 B2	
2025 D2	2060 B5	3025 D2	3044 D4	3062 B5	3093 A5	7005 A3	7083 C2	
2026 C3	2070 B5	3026 C3	3045 C4	3078 D2	3094 B4	7010 D3	7090 B4	
2030 C2	2080 C2	3027 D3	3046 D4	3079 A3	4001 D5	7021 C4	7091 B5	
2031 B3	2081 A3	3028 D3	3047 C4	3080 A4	4002 D5	7022 D4	7092 A4	



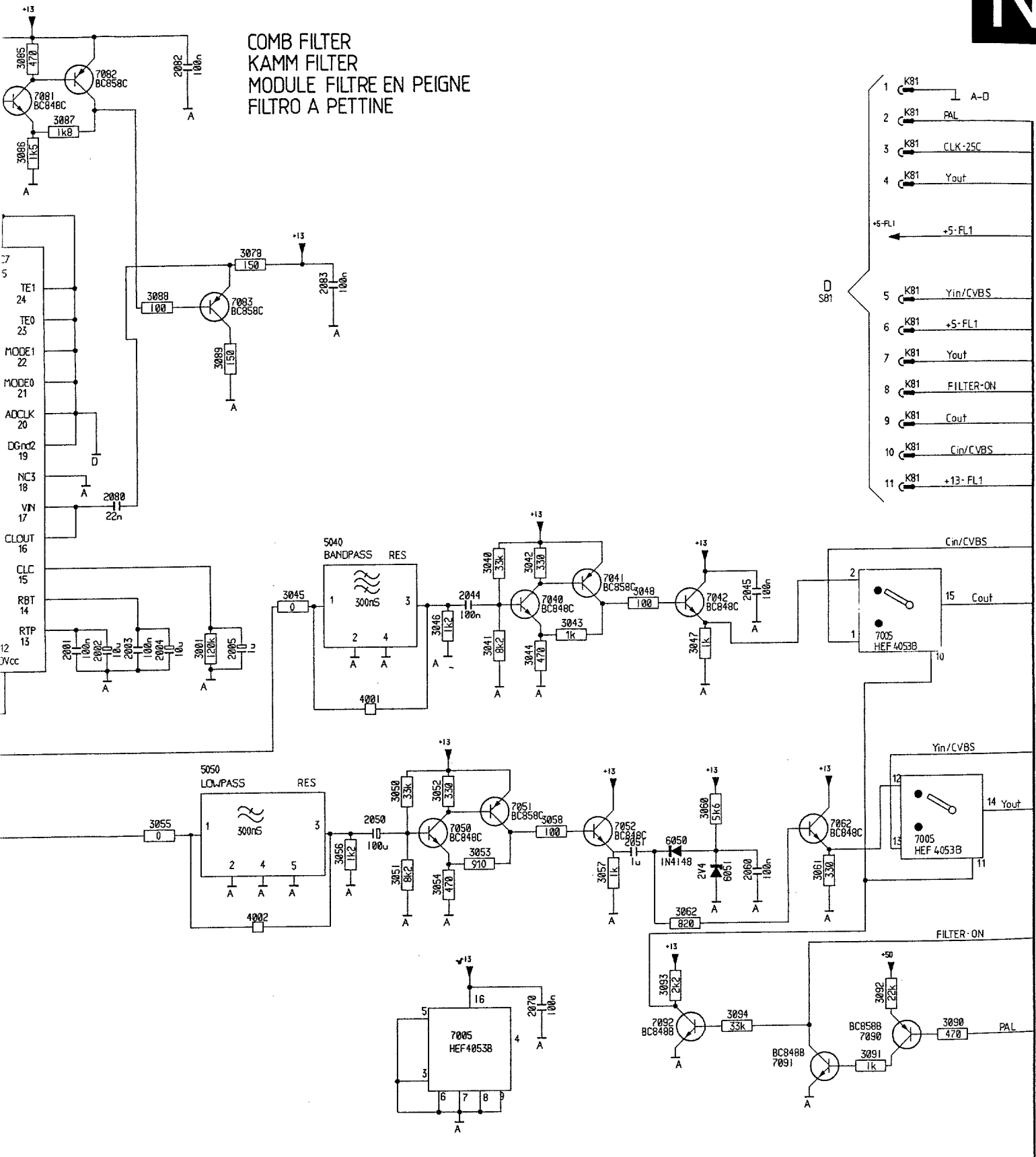


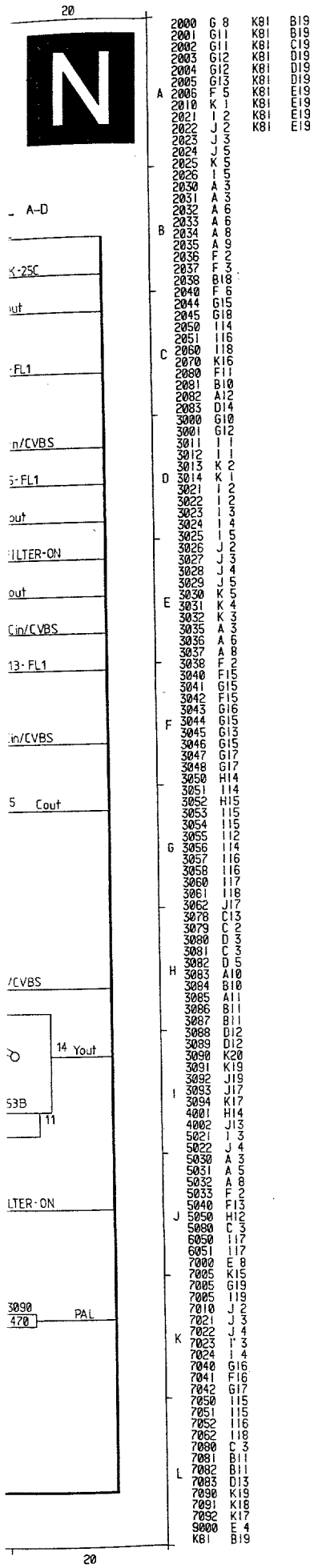
Comb filter / Kamm-Filter / Filtre en peigne



N

COMB FILTER
KAMM FILTER
MODULE FILTRE EN PEIGNE
FILTRO A PETTINE





	2000	G 8	K8I	B19
	2001	GII	K8I	B19
	2002	GII	K8I	C19
	2003	GI2	K8I	D19
	2004	GI2	K8I	D19
	2005	GI3	K8I	D19
A	2006	F 5	K8I	E19
	2010	K I	K8I	E19
	2021	I 2	K8I	E19
	2022	J 2	K8I	E19
	2023	J 3		
	2024	J 5		
	2025	K 5		
	2026	I 5		
	2030	A 3		
	2031	A 3		
	2032	A 6		
	2033	A 6		
B	2034	A 8		
	2035	A 9		
	2036	F 2		
	2037	F 3		
	2038	BI8		
	2040	F 6		
	2044	GI5		
	2045	GI8		
	2050	II4		
	2051	II6		
C	2060	II8		
	2070	KI6		
	2080	FII		
	2081	BI0		
	2082	AI2		
	2083	DI4		
	3000	GI0		
	3001	GI2		
	3011	I I		
	3012	I I		
	3013	K 2		
D	3014	K I		
	3021	I 2		
	3022	I 2		
	3023	I 3		
	3024	I 4		
	3025	I 5		
	3026	J 2		
	3027	J 3		
	3028	J 4		
	3029	J 5		
	3030	K 5		
E	3031	K 4		
	3032	K 3		
	3035	A 3		
	3036	A 6		
	3037	A 8		
	3038	F 2		
	3040	FI5		
	3041	GI5		
	3042	FI5		
	3043	GI6		
F	3044	GI5		
	3045	GI3		
	3046	GI5		
	3047	GI7		
	3048	GI7		
	3050	HI4		
	3051	II4		
	3052	HI5		
	3053	II5		
	3054	II5		
	3055	II2		
G	3056	II4		
	3057	II6		
	3058	II6		
	3060	II7		
	3061	II8		
	3062	JI7		
	3078	CI3		
	3079	C 2		
	3080	D 3		
	3081	C 3		
	3082	D 5		
H	3083	AI0		
	3084	BI0		
	3085	AII		
	3086	BII		
	3087	BII		
	3088	DI2		
	3089	DI2		
	3090	K20		
	3091	KI9		
	3092	JI9		
I	3093	JI7		
	3094	KI7		
	4001	HI4		
	4002	JI3		
	5021	I 3		
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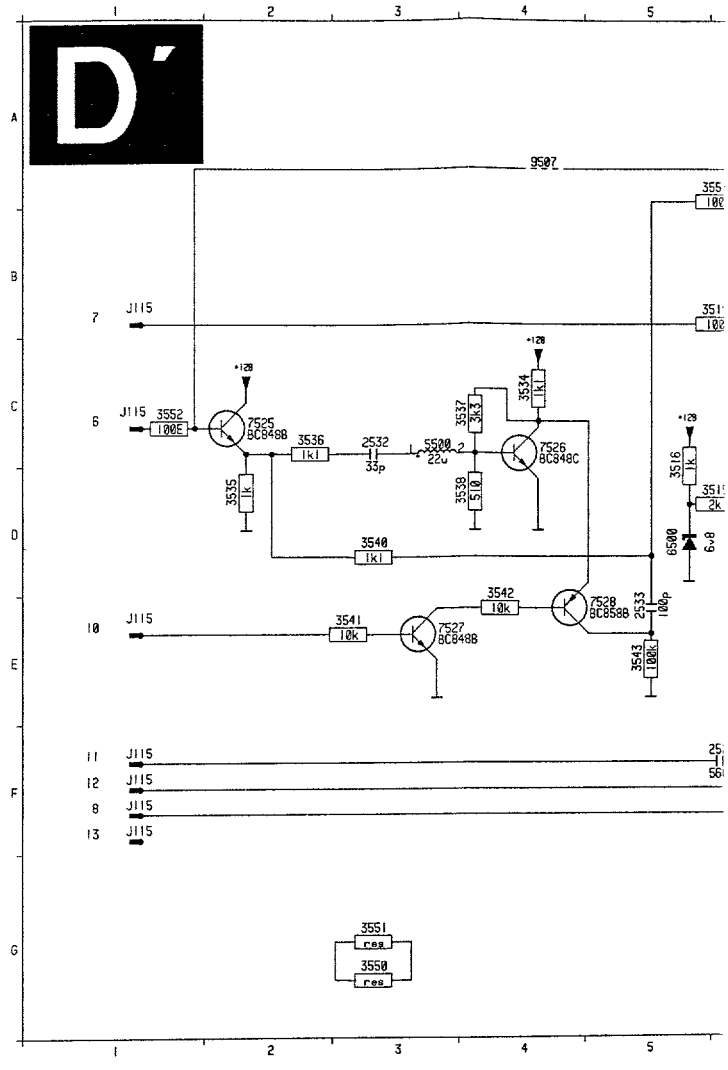
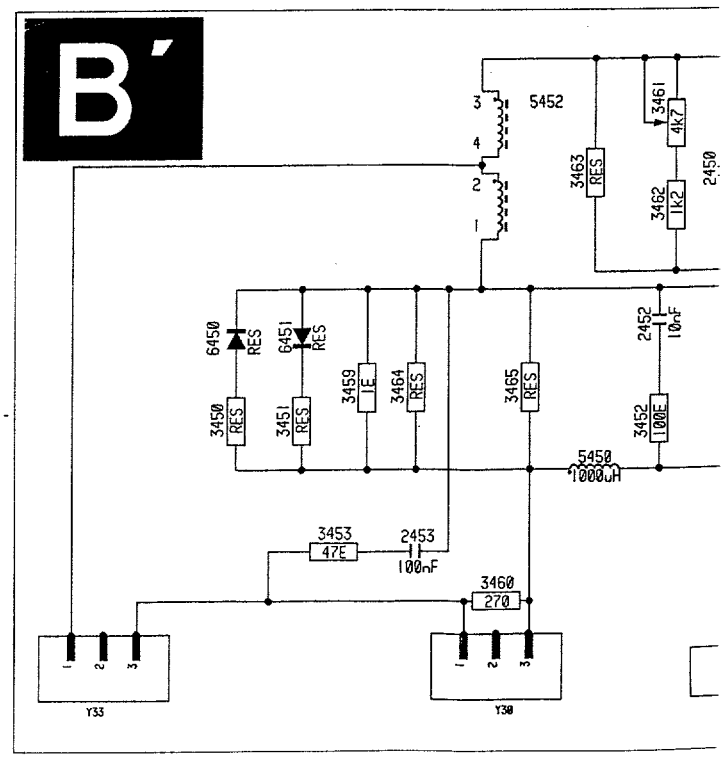
	5031	A 5		
	5032	A 8		
	5033	F 2		
	5040	FI3		
J	5050	HI2		
	5080	C 3		
	6050	II7		
	6051	II7		
	7000	E 8		
	7005	KI5		
	7005	GI9		
	7005	II9		
	7010	J 2		
	7021	J 3		
	7022	J 4		
K	7023	I 3		
	7024	I 4		
	7040	GI6		
	7041	FI6		
	7042	GI7		
	7050	II5		
	7051	II5		
	7052	II6		
	7062	II8		
	7080	C 3		
	7081	BII		
	7082	BII		
L	7083	DI3		
	7090	KI9		
	7091	KI8		
	7092	KI7		
	9000	E 4		
	K8I	B19		

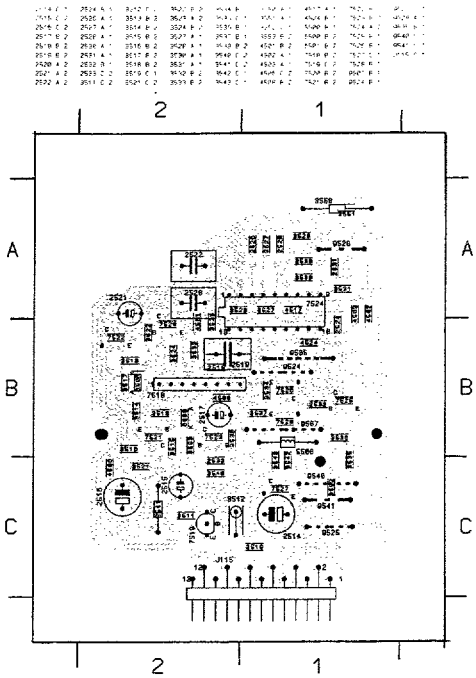
Black stretch



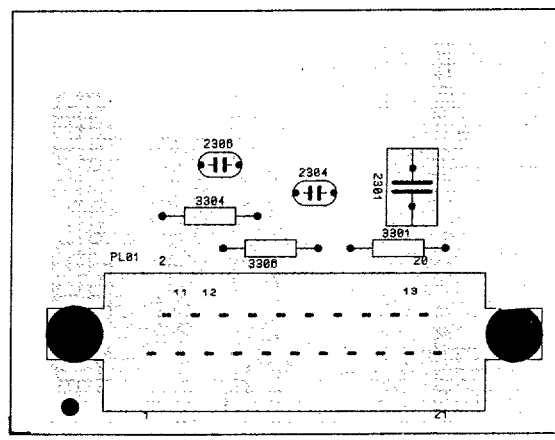
North-South (only 29")



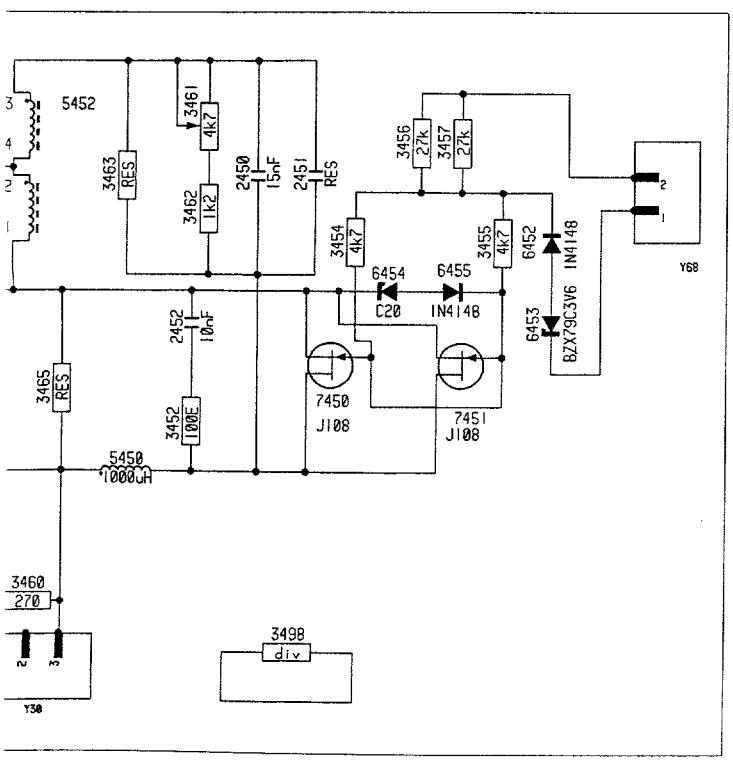
Black stretch

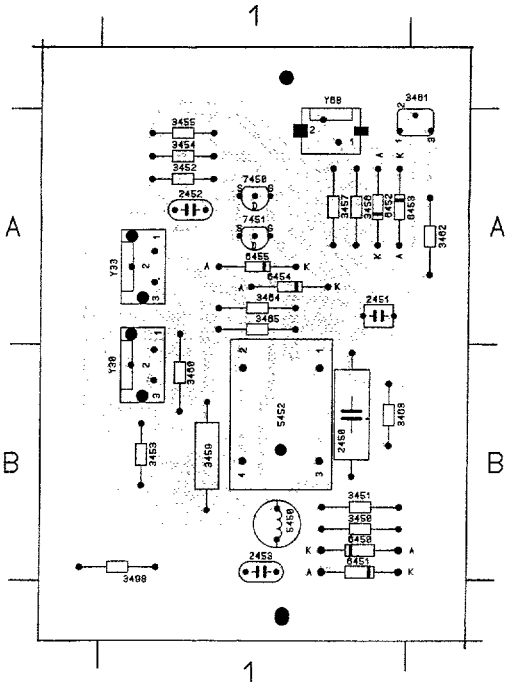


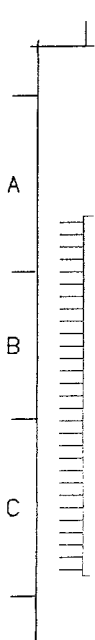
Euro AV3 Connector



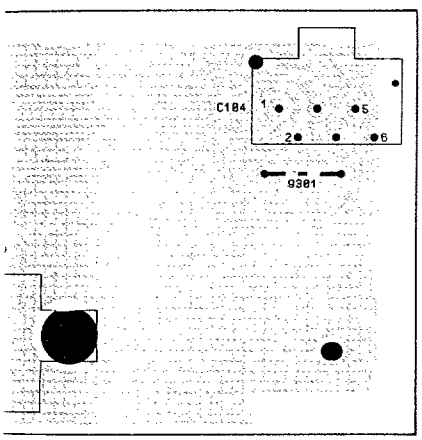
North-South (29")



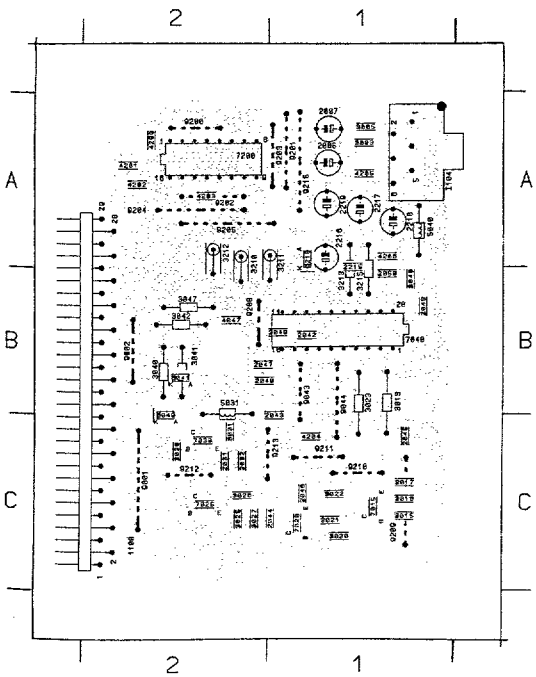


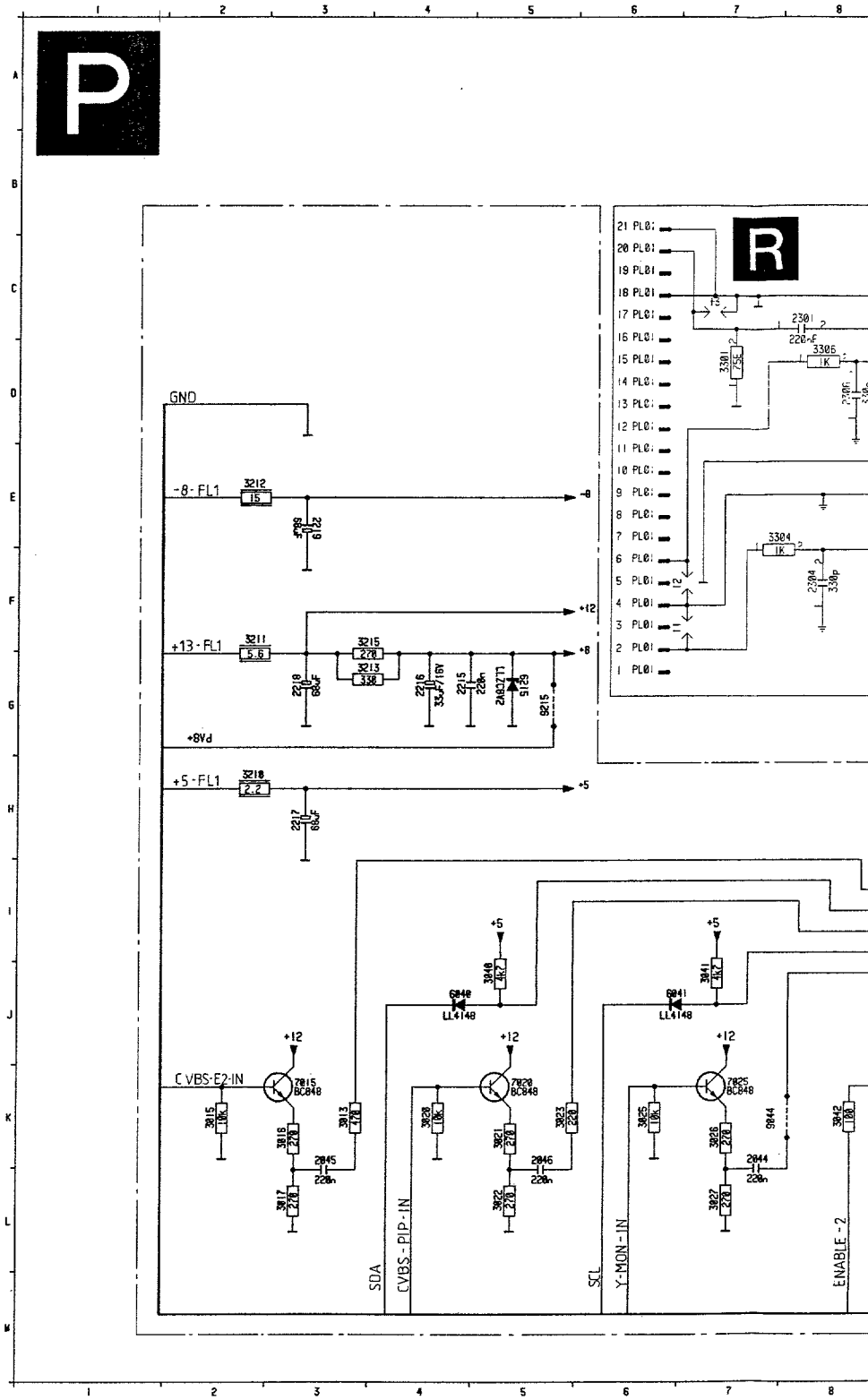


Euro AV3 Interface / Connector

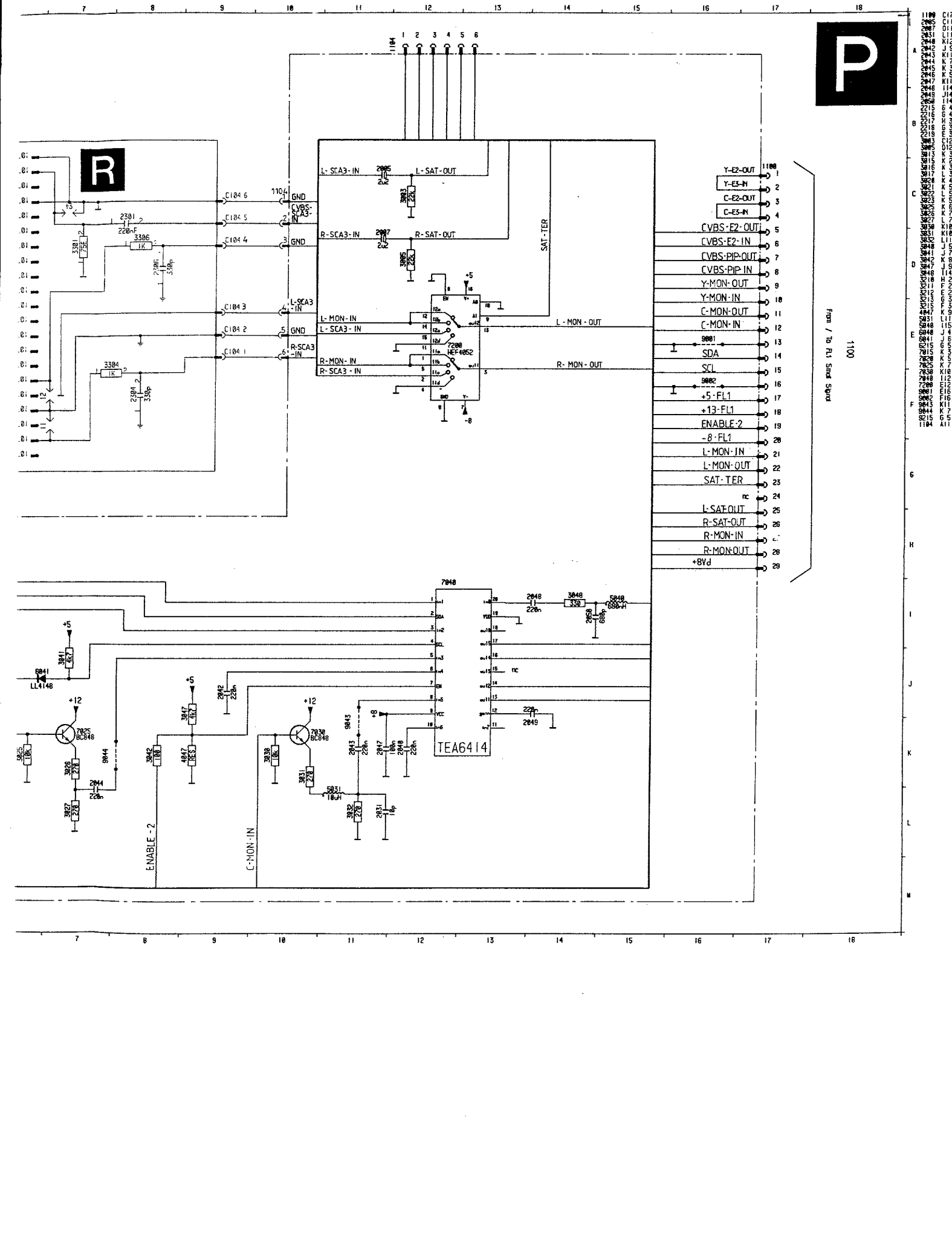


Euro AV3 Interface





Interface / Branchement Euro AV3



7. Electrical adjustments

Setting conditions

- Unless stated otherwise, the supply voltage used is: 220 - 240V ± 10%; 50 - 60Hz ± 5%
- Voltages and oscillograms are measured in elation to tuner earth. **Never** use the cooling plates as earth.
- Warming-up time ≈ 10 minutes
- For all measurements it is true that:
- probe Ri > 1MΩ; Ci < 10pF

1. Electrical settings on the large signal panel

1.1 +141V supply voltage

Supply the mains voltage; this must be isolated from the mains.
Connect a voltmeter over C2238.
Using R3371, on the SOPS DRIVE CIRCUIT (fig. 7.2) set the supply voltage to + 141V ±0.5V.

1.2 +5V supply voltage (FLx.x6/FLx.x7)

Connect a voltmeter to pin 8 of L02
Adjust the voltage to 5.4V using R3558

1.3 +13V supply voltage (FLx.x6/FLx.x7)

Connect a voltmeter to pin 6 of connector L02
Adjust the voltage to 14.2V using R3234.

1.4 Focusing

This is set with the focus potentiometer (top one on the Line output transformer/DAF Unit).

1.5 Dynamic 1) Astigmatic focus

This is set with the aid of the potentiometer on the bottom right of the DAF transformer. Repeat the adjustment of the Vg2 and focus.

1.6 Vg2 setting

Supply an aerial signal.
Set the contrast to maximum and the brightness and saturation to nominal.
Using an oscilloscope set to field frequency, measure the direct voltage level of the measurement pulse (fig. 7.1) on pin 9 of IC7705, IC7706 and IC7707 in relation to earth.
Now adjust the highest voltage level found with the aid of the Vg2 potentiometer (bottom left on the Line output transformer/DAF unit) to 150V ±2V.

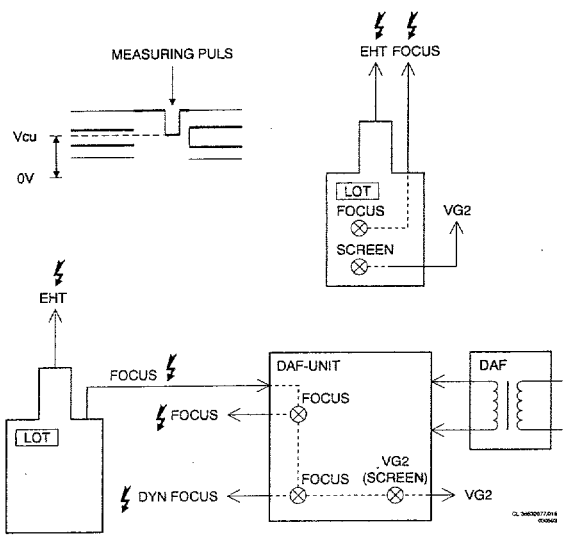


Fig. 7.1

1.7 Horizontal synchronisation

Connect point 5-IC7400 to point 9-IC7400.
Supply an aerial signal and set the receiver.
Adjust potentiometer R3406 until the picture is straight.
Break the through connection.

1.8 Horizontal centring

Feed in a test pattern that makes the horizontal linearity visible (e.g. a symmetrical cross pattern or a test circle).
Adjust the DC offset current through the horizontal deflection coil using R3513 so that the horizontal linearity is optimal (the distance between the two vertical lines should be equal on both the left and right hand sides of the picture). It is also possible to use a ruler for this purpose. The picture can then be centred using R3415.

1.9 Picture width

Set using potentiometer R3607.

1.10 Vertical centring

Set using potentiometer R3467.

1.11 Picture height

Set using potentiometer R3410.

1.12 Picture height

Movie expand on: set using potentiometer R3422.
Movie expand off: set using potentiometer R3410.

1.13 East/West correction

Set using potentiometer R3602.

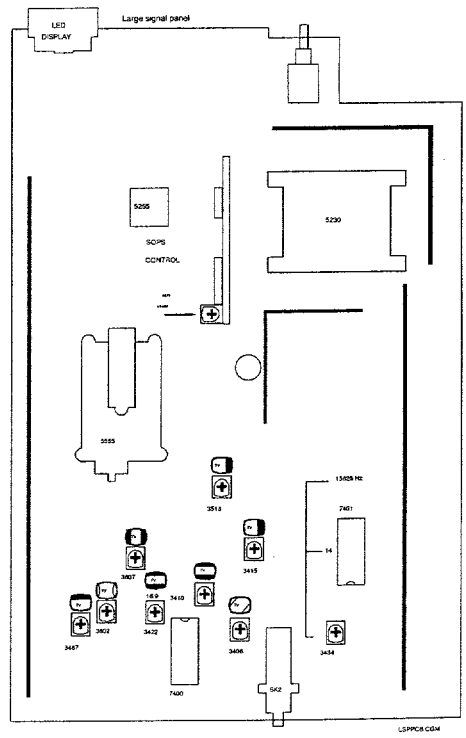


Fig. 7.2

2. E

2.1 S

C
si
S
th
C
U
ar

2.2 4

S
pc
ar

2.3 E

2.3.1 C
C
th
4.
pi
os
S
R

2.3.2 4.
C
w
C
C
S
R

2.3.3 6.
C
E
2(
C
C
S
R

2.3.4 C
C
ba
ea
pr

2.3.5 C
C
ba
ea
pr

2.3.6 S
C
bl
3-
C
m

2. Electrical settings on the small signal panel

2.1 Stereo audio channel separation

Connect a signal generator with a 2 carrier stereo signal ("stereo" mode).
Select 1kHz for the right-hand channel and switch off the sound for the left-hand channel.
Connect an oscilloscope to pin 3 of Euroconnector EXT1
Using R3602 on the small signal panel, set the amplitude of the signal to minimum amplitude.

2.2 4.43 MHz chroma suppression circuit

Supply a colour bar signal. Connect an oscilloscope to point 17 of IC7324 and set L5305 to minimum amplitude of the chrominance signal.

2.3 Electrical settings IC7365 (TDA4650)

2.3.1 Chroma bandpassfilter

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7365 to pin 13-IC7365 (+12V). Connect an oscilloscope to pin 15-IC7365.
Set L5345 to maximum amplitude.
Remove the interconnection.

2.3.2 4.50 MHz NTSC sound suppression

Connect a generator to point 20 of Euroconnector EXT1 with a frequency of 4.50 MHz and 200mV$_{rms}$.
Connect point 26-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.3 6.50 MHz SECAM DK sound suppression

Connect a sine-wave generator to point 20 of Euroconnector EXT1 with a frequency of 6.50 MHz and 200mV$_{rms}$.
Connect point 28-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.4 Chroma 8,87 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set C2380 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.5 Chroma 7,16 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set R2379 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.6 SECAM demodulators

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 3-IC7365. Set L5370 to minimum amplitude.
Connect the oscilloscope to pin 1-IC7365. Set R3370 to minimum amplitude.

SMALL SIGNAL PANEL

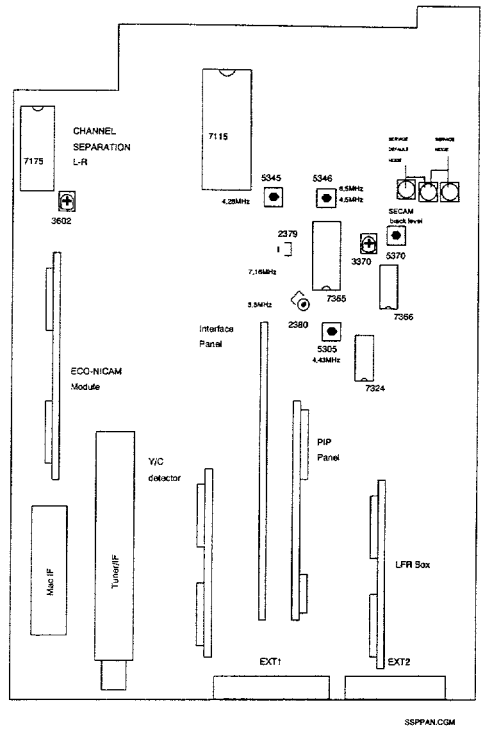


Fig. 7.3

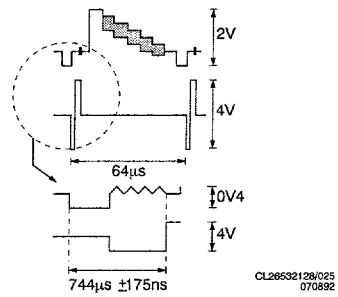


Fig. 7.4

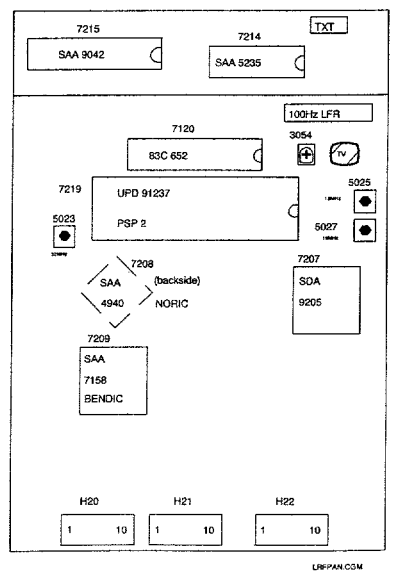


Fig. 7.5

Electrical adjustments

3. Electrical adjustments on the LFR box

3.1 Synchronisation

Connect point 5 of IC7216 to earth. Adjust R3054 until the picture is straight.
Remove the short circuit.

3.2 16MHz oscillator

Apply a PAL/SECAM signal. Measure the signals at point 1 of IC7219 and at point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5027 so that the positive-going flank of the signal at point 1 of IC7219 comes 7.62 µsec after the negative-going flank of the sync pulse in the video signal (point 5 of IC7216).

3.3 32MHz oscillator

Force the STABLE OSD command to the microprocessor, by disconnecting the set from a possible antenna inputsignal. Measure the frequency at point 41 of IC7208. Using L5023 set the frequency to 32 MHz ±50 KHz.

3.4 12MHz oscillator

Switch on compress.
Measure the signals on point 1 of IC7219 and on point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5025 so that the rising flank of the signal on point 1 of IC7219 comes 7.62 µsec after the negative flank of the sync pulse in the video signal (point 5 of IC7216).

4. Electrical settings on the ECO-NICAM decoder panel

4.1 Neutral frequency adjustment

Connect a frequency counter via a probe (Ci ≤15pF) to pin 19 of IC7001 (SAA 7280) and pin 15 (GND).
Adjust C2015 in such a manner that the clock frequency is set at 728.025 kHz. (±5Hz)

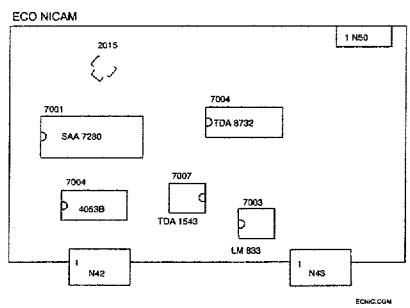


Fig. 7.6

5. Y/C detector adjustment

5.1 PAL/SECAM

Inject a chroma signal of 4.418 MHz/200mV on pin 15 of EXT2 SCART (PL05).
Connect an oscilloscope to the collector of T7266 (T7). Using L5201 adjust the 4.418 MHz signal to maximum amplitude.

5.2 NTSC

As PAL/SECAM but with a signal of 3.582 MHz/200mV. Adjust with L5200.

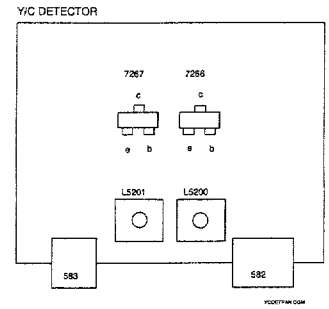


Fig. 7.7

6. Electrical settings on the PIP panel

Setting conditions

Before carrying out each setting, it should be ensured that a P.I.P. picture with colour bar is visible on the screen and the unit should have reached its operating temperature (after ≈20 min.).

6.1 Horizontal synchronisation

Supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125.
Connect pin 5-IC7755 to earth.
Measure the frequency on pin 17-IC7755 and set this to 15,625 Hz ±25 Hz with R3239.
Remove the short circuits.

6.2 AGC

If the picture from a strong local transmitter is distorted, adjust 3160 until the picture is not distorted.

6.3 Setting for PIP modules with TDA4554

6.3.1 Chroma bandpass filter

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125.
Connect an oscilloscope to pin 15-IC7125.
Set L5118 to maximum amplitude.
Remove the interconnection.

6.3.2 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) to earth. Set C2202 so that the colour of the PIP picture is practically still. Remove the interconnection.

6.3.3 NTSC chroma auxiliary oscillator

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set C2212 so that the colour of the PIP picture is practically still. Remove the interconnection.

6.3.4 The delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554). Set the oscilloscope to the X-Y position.
Set L5155 and L5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

Electrical adjustments

6.3.5 SECAM identification

Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Adjust L5190 to maximum DC level.
Remove the interconnection.

6.3.6 SECAM demodulators

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using L5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set L5170, but now measure at pin 3-IC7125.
Remove the interconnection.

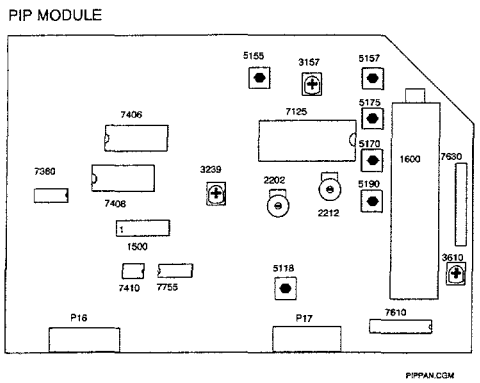
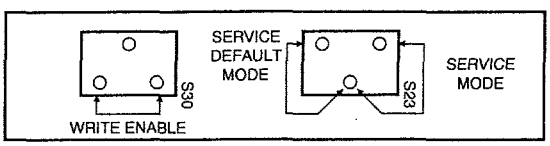


Fig. 7.8

7. Alignments in the Service Menu

The FL sets are equipped with EAROM protection. The EAROM protection will only work if pin 1 of IC7137 is high. If this point is made low by the pins of S30 on the SSP, the protection is switched off and the protected area can once more be written to. During adjustment in the service menu these pins must therefore remain connected together continuously.



7.1 Switch in the Service Menu by momentarily connecting together pins 2S323 and 1S323 on the small signal panel (diagram H). The Service Menu will then appear on the screen. The procedure is as follows:

- *Select the required alignment with the* coloured keys A to E.
- Change the values set using the "Menu +/-" key.
- Store the values set in the EAROM and leave the Service Menu by selecting STORE.

● **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.**

7.2 White Drive Alignment

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
Select a white picture. (A black picture (e.g. VCR1) set at maximum brightness is also suitable).
Switch the Service Menu in.
Select the required white drive alignment by adjusting the colours red and blue in relation to green (green is the reference colour).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 44.
The factory setting for blue is then approx. 44.
The factory setting for red is then approx. 21.

7.3 Cut-off Alignment

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
Select a black picture (e.g. VCR1).
Switch the service menu in.
Set the brightness level so that the picture just (but *clearly) illuminates.*
Using the Cut-off adjustments align the colour temperatures in such a manner that at minimum illumination of the picture they are the same as the colour temperatures at maximum brightness.
(At minimum picture illumination it is possible that one colour may dominate. This is however normal and does not have to be (fully) compensated with the cut-off alignment).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 28.
The factory setting for blue is then approx. 33.
The factory setting for red is then approx. 25.

7.4 Option Alignment

The microprocessor communicates with a great number of components in the set. For correct communication the microprocessor has to know what IC's and modules are present in the set. This is done using option codes. An incorrectly set option code will give a communication problem and an accompanying error code. Every function has been allocated a value. The sum of 8 values forms an option code. This number can vary from 0 to 255. The option code tables are given at the end of this paragraph.

For example, a set has:

Option code 1

Function	*Value*
Front end FQ916/ME/IF	2
PIP module	8
NTSC-M	16
NICAM module	64
2nd front end on PIP module	128 +

Option code 1 is now:	**218**

Option code 2

Function	*Value*
100 Hz Digital Scan	4
100 Hz Digital Scan	64
Comb Filter	128 +

Option code 2 is now:	**196**

Option code 3

Function	*Value*
16:9 PTV	64 +

Option code 3 is now:	**64**

Option code 4:

Function	*Value*
50Hz-PIP	2
FL2/4 model	4
DAF	8
Mozaik screen on	32
Picture rotation	128 +

Option code 4 is now:	**174**

Option code 5

Function	*Value*
Third SCART (Euro AV3)	1
SCAVEM	2 +

Option code 5 is now:	**3**

Optioncode 1	
Nbr.	**Function**
0	**Front end = FQ816 / FQ916** A reception of PAL BG or PAL BG and SECAM BG is now possible
1	**Front end = FQ844 / FQ944** Only reception of the UHF band is now possible
2	**Front end = FQ816/ME/IF / FQ916/ME/IF** Reception of SECAM L but not of SECAM L' is now possible (reception of NTSC-M is now usually also possible).
4	**Front end =FQ916/MF/IF** Reception of both SECAM L and SECAM L' is now possible (NTSC M reception is generally possible now via the Euroconnector).
8	**PIP module present** This makes it possible to show PIP (Picture in Picture) displays.
16	**NTSC-M reception possible** This is normally always in combination with front end FQ816/ME/IF or FQ816/MF/IF or FQ916/ME/IF or FQ916/MF/IF
32	**SECAM DK module fitted** In this case transmissions using the SECAM DK system can also be received.
64	**NICAM module fitted** In this case the digital sound with NICAM transmission can be received.
128	**Second front end for PIP fitted** If this second front end is fitted a second transmitter can be displayed in the PIP picture. The PIP function (number 8) still applies.

Optioncode 2	
Nbr.	**Function**
1	**Not in use**
2	**Not in use**
4	**100Hz** 0 for 50Hz or 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 64 further.
8-32	**Not in use**
64	**100Hz** 0 for 50Hz 1 for 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 4 further.
128	**Comb-filter** Select this bit for sets with a comb-filter with IC7000 = MC141625 on the comb-filter module (number 16 of option code 4 should now be zero).

Electrical adjustments

Optioncode 3	
Nbr.	**Function**
1-32	**Not in use (SAT)**
64	**16:9 present**
128	**"Videocolor 36" Picture tube**

Optioncode 4	
Nbr.	**Function**
1	**Teletext Peaking Filter on/off for LFR box (Scandinavia)** In Scandinavia this number must be selected .
2	**50Hz-PIP in a 100Hz set** Applies to FLx.x7. Applies to Digital Scan sets (FLx.x4/FLx.x6) with the Multi-PIP possibility. (This option is 0 for the FL1.14 36" (no Multi-PIP))
4	**FL2/4 model** (see chapter 4 also)
8	**16:9 picture tube with DAF (Dynamic Astigmatic Focus)** Recognisable by the potentiometers for 'Focus' and 'VG2 (SCREEN)'; these are located on the DAF unit instead of on the high voltage transformer (LOT).
16	**Not in use**
32	**Mozaik screen on/off**
64	**Not in use**
128	**Picture rotation possible (frame rotation) (16:9)**

Optioncode 5	
Nbr.	**Function**
1	**Third SCART present**
2	**SCAVEM switchable present**
4	**Not in use**
8	**SCAVEM non switchable present**
16	**Auto TXT install enable**

8. Repair tips

1. The Service Default Mode

The FL is equipped with a service default mode. The service default mode is a fixed, definite state to which the set can be switched.

1.1 Definition state

The definition of the fixed state in the service default mode is as follows:

- all sound and picture controls are in the central position (exception volume which is turned down)
- tuned to 475.25 MHz
- system:
  * PAL/SECAM BG for Multi Europe
  * PAL I for UK
  * SECAM L for Multi French

1.2 Switch on and off

The service default mode is switched on by shorting pins 2S323 and 3S323 on the small signal panel.

The service default mode can only be switched off by switching the set to stand-by. If the set is switched off and then on again using the mains switch or the mains plug, the service default mode will remain on.

If the set switches to stand-by immediately after switching-on, the set cannot be operated and also cannot be switched to the service default mode. The child-proof lock has already been activated.
To deactivate the child-proof lock the following series of commands has to be given using the remote control (see also Section 9):
<MENU>-<BLUE>-<RED>-<MENU+>-
<MENU OFF>

1.3 Fault signals

To indicate that the set is in the service default mode, the following is displayed on the screen:

SERVICE 00 00 05 06 05

The five numbers after the word "service" stand for the last five fault signals noted by the operator(s). The number on the extreme right represents the last fault signal, that on the extreme left the last fault signal but 4. Since this enables fault reports to be looked at afterward, it means that intermittent faults can be traced.
When the set leaves the service default mode, the fault-report memory is cleared.

1.4 Operation

During the service default mode the set will accept all operating commands. When, however, the set is switched off and on, it will return to the state as defined above.

2. Error messages

The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.

In both FL1 and FL2/4 models the I^2C error messages are indicated by a combination of flashing LED's. In FL1 7 LED's on the front of the set are used. In FL2/4 only 2 LED's have been fitted to the front of the set: 'on' and 'stand-by'; for service purposes the 7 LED's have been fitted inside the set in an SMD version. These are located on the solder side of the panel with buttons for local control. The 2 LED's on the front of the set are connected in parallel with the corresponding service LED's.

Figure 8.1 illustrates the situation for FL1 and FL2/4. A table of error messages is provided at the end of this chapter.

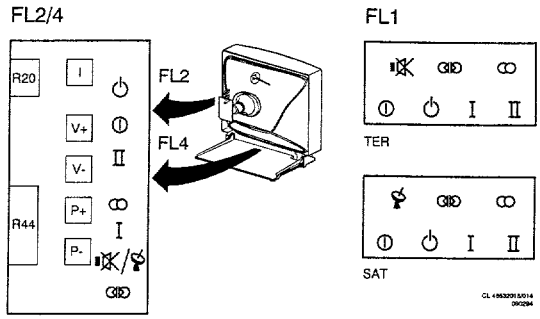


Fig. 8.1

3. Replacement of EEPROM IC7137

If, during a repair, the EEPROM has to be replaced, the microprocessor will detect that the EEPROM is empty. A fault signal (No. 21) will then be displayed.
If the service mode is now activated
(see section 7), the microprocessor will load the EEPROM with a number of standard values for the white balance and the other linear settings. These values, however, must all be checked and, if necessary, re-adjusted.
All options have also to be set, the programs installed and the personal preference set.

4. Extension prints

To simplify the measurements ON the various modules extension prints are available for the modules fitted with BTB connectors. Modules can be placed in these connectors so that they stick out above the other prints when the chassis is in the service position.
The code numbers for the extension prints are:

5-fold	4822 395 30261
6-fold	4822 395 30259
8-fold	4822 214 31402
9-fold	4822 395 30258
10-fold	4822 395 30257

5. Removing the PIP module

The PIP module can be simply removed, leaving the set functioning normally (The LED display does however indicate an error condition). Following the removal of the PIP module the signal path is broken. The signal path can be restored by placing the 5-core flat cable with connector S56 in connector foot S16 (see diagram D).
The error message can be removed through the application of the option codes (see chapter 7).

6. Extension cables

Extension cables are available to lead the large signal and small signal panel signals (LSP and SSP) separately out of the set. These are made up as follows:

4822 320 20209	Set of 6 cables for LSP and SSP connections.

See chapter 4 also.

7. Central repair

For panels and modules which are difficult to repair there remains a possibility for central repair. Following receipt of a defective module a repaired and tested module is issued.
In order to guarantee the quality of the central repair service a certain amount of information regarding the defective panel is required. This information should be submitted together with the defective panel. This concerns the following information:

1. Clear description of the fault
2. Indication of intermittent or continuous fault
3. Type/version number of the set
4. AG-production code and week/year number
5. Serial number

The defective modules should be complete and free of mechanical damage.
These facilities are offered for the modules below:

LFR box [L]+[M]	4822 212 31233	FL2.2X
LFR box [L]+[M]	4822 212 31313	FL2.24/58
LFR box [L]+[M]	4822 212 31314	FL2.24/62
100Hz box [L']	4822 212 31392	FL4.27

8 Diagnosis and protection

8.1 Hardware and software protection

In case any serious fault occurs in the set, one of the protection circuits will activate. A protection circuit switches of the main power supply (SOPS) via the stand-by input (STBY) of the SOPS control panel. This input is located on pin 1 of connector pin L40 with test point number TP56, and is illustrated on diagram A.
As the microprocessor is fed by a separate stand-by power supply (SOPS), the processor and the LED's will continue to operate, even when the main power supply is switched off.

A number of protection circuits can switch off the power supply independently and immediately (hardware protection). In two protection circuits the microprocessor itself switches off the power supply (software protection).

All protection circuits come together on the stand-by input (TP56 of the main power supply. A diagnosis determines which protection circuit is active.

8.2 Protection test point TP56 [diagram A]

The following voltages may be present on the stand-by input of the SOPS control panel (TP56): [see diagram A]

1	Approx. 17V	during operation;
2	0.5 - 1V	during hardware protection; (this value is maintained by a thyristor circuit formed by TS7380/TS7381);
3	0.5V	during stand-by and software protection.

8.3 Hardware protection:

1 Power supply voltage +13 from the SOPS too high (+V) [diagram A].
This protection circuit activates if the voltage in +13V circuit of the SOPS becomes too high during operation.

2 SOPS and/or +11/-11V for the audio output amplifier defective (SOUND-PROT).
[diagram G]
The protection circuit activates when the +11V and -11V voltages are no longer in balance, or when both voltages are absent. This protection circuit also operates when the SOPS does not function or is short-circuited.
This protection circuit is fed by the start-up voltage 'Vstart' from the SOPS.

3 Beam current too high (I-BEAM) [diagram B]
When the beam current becomes too high this protection circuit switches off the power supply. Before this protection circuit can activate the picture will first illuminate brightly. This fault occurs for example on the absence of the +200V power supply voltage on the picture tube panel.

4 Deviating LOT behaviour (EHT, LOT-PROT) [diagram B].
This protection circuit becomes active when a 'unusual' voltage forms appear on the LOT outputs (5555). This may indicate defective or loose components in the line deflection circuit. (LOT, switching transistors, capacitors).

5 East/west output stage defective [diagram B].
This protection circuit activates when the current through the east/west switching transistor T7610 exceeds a specific value. In this case transistor T7542 will conduct for a brief period.
(the base-emitter voltage Ube from T7542 is then momentary greater than 0.6V).

6 Vertical deflection end stage (IC7450) defective [diagram B].
The frame output stage IC7450 has a protection output (pin 7, TP62). This output becomes momentarily high on any defect in this IC or during the absence of the power supply voltage.
During normal operation there are short pulses on this output.
The frame output stage is fed by a winding on the LOT (5555) (+28V or +32V).
During diagnosis a check should be made whether the +28/+32V power supply voltage continually drops before the protection circuit output is activated. If this is the case then one of the other protection circuits is responsible for switching out the power supply.

By measuring the timing pulses between the protection output (pin 7) and the power supply voltage (pin 6) in relation to earth (pin 2 or 4) it can be determined whether the protection is originating from the frame output stage. The protection circuit overview at the end of this chapter provides a schematic overview of the measurements.

8.4 Software protection

8.4.1 Error message 99

Error message 99 is displayed when software protection is generated by the microprocessor. Software protection becomes active when the +13V and or +5V power supply voltage is not present on the small signal panel (SSP). Due to the absence of the power supply the connected components are unable to provide an I^2C signal to the microprocessor. The processor then sets the SOPS in stand-by. If this is the case error message 99 is then displayed.
Software protection can be switched out by activating the 'Service Default Mode' (see §1).

If the +13V or +5V are absent as a result of hardware protection switching out the power supply, error message 99 will be displayed by the LED's following a short period, as the microprocessor is no longer receiving any signal from the connected IC's. The processor now bridges the hardware protection via the STBY signal. Each hardware protection will therefore eventually result in software protection, resulting in error message 99 being displayed.

During hardware protection the microprocessor makes repeated attempts to communicate with the connected I^2C-IC's before making a decision for software protection.
During this period (up to approximately 5 minutes) the set will not react to any operational commands.
Because none of the I^2C-IC's responds in this period various error messages will be displayed by the LED's.
If error message 99 does not eventually appear then the protection circuits are not operational and the cause of the fault can be sought elsewhere.

When the microprocessor generates a STBY signal for implementing software protection TP56 will be made lower than 0.5V by the STBY signal, through which any eventual hardware protection on TP56 will be bridged.
In order to determine whether hardware protection is active via TP56 the voltage on TP56 should be measured with the set in the 'Service Default Mode' or measured before error message 99 appears on the LED display.

8.4.2 Software protection

7 +5V on the small signal panel (SSP) [diagram B and C]
To test whether the +5V power supply voltage, from the LOT winding (5555) [diagram B], is reaching the small signal panel without short-circuiting, the front-end (1160 [diagram C]) must provide a signal to the microprocessor via IC within a specific time.
If this signal does not arrive, the microprocessor switches the main power supply into stand-by, and the LED's will indicate error message 99 once more.
To test whether the front-end is defective the service default mode will have to be selected. If the power supply voltages on the front-end are correct and a front-end error message persists (error 11), then the front-end is defective.

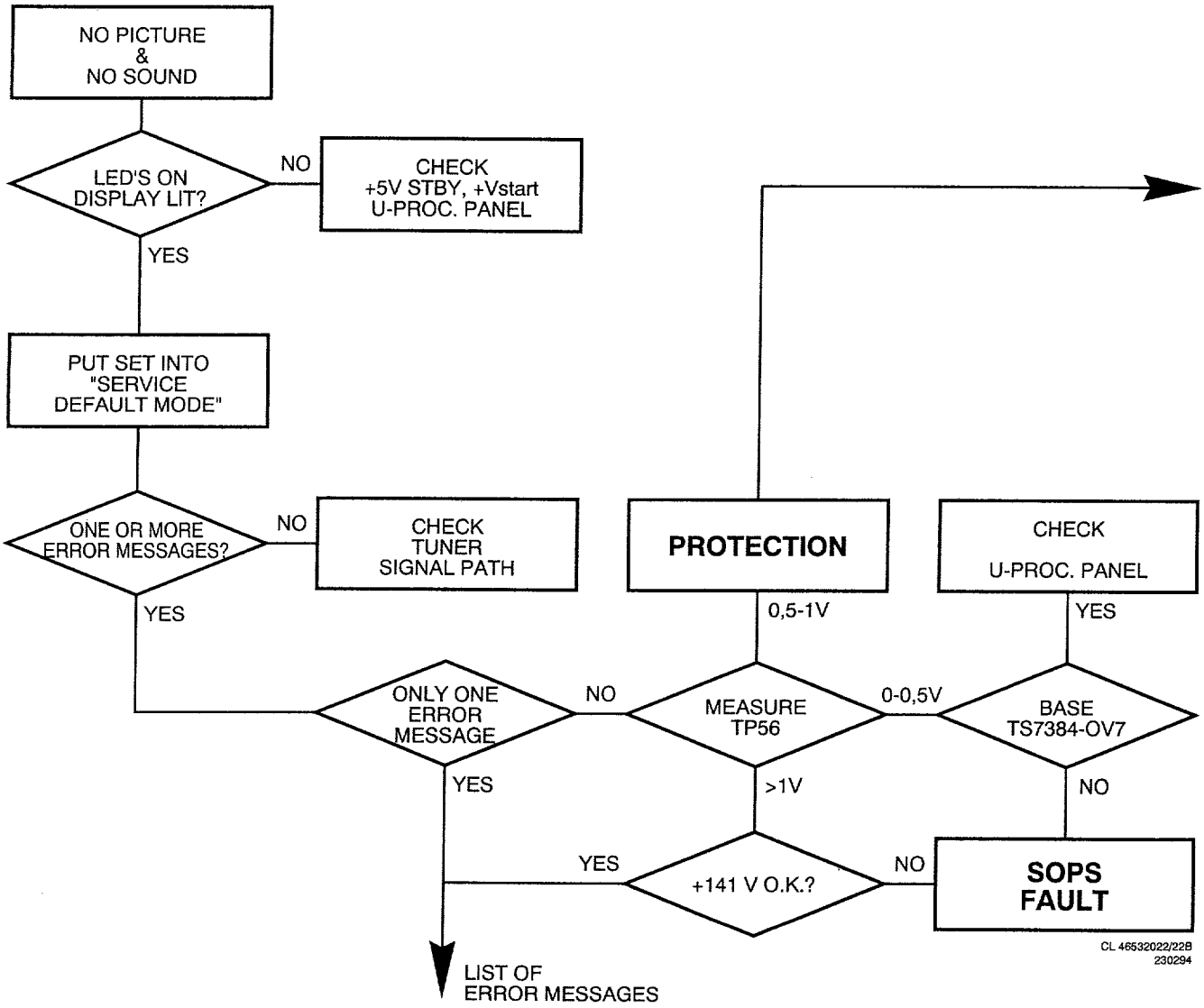
8 +13V on the small signal panel (SSP) [diagrams A, D and F]).
To test whether the +13V power supply voltage from the main power supply (SOPS) [diagram A] is reaching the small signal panel without short-circuiting, IC7430 (TDA4680 video processor, [diagram D]) or IC7600 (TDA8417, stereo decoder, [diagram F]) or IC7680 (TDA8425, audio processor [diagram F]) must provide a signal via I^2C to the microprocessor within a specific time. If none of these three IC's provides any signal the microprocessor switches the main power supply into stand-by. The LED's indicate error code 99.

9 SAT box power supply defective (only for set with a SAT box (D2-MAC)).
When the SAT box microprocessor does not send a signal to the main processor in the set, the main processor, following error message 51 (SAT box processor), will switch the software protection in. The LED's now indicate error code 99.
To test whether the SAT box processor is defective the service default mode must be selected. If only the error message from the SAT box is now indicated (error 51), and all power supply voltages on the processor are correct, then the SAT box processor is defective.
The operation of the SAT box power supply [diagram O] can be checked as followed:
Disconnect the SAT box and chassis from one another by disconnecting the band cable between the interface panel [diagram P] and the SAT box [diagram O].
When after a short time the set can be started up from stand-by the SAT box will have an incorrect power supply and error message 99 does not appear.

8.5 Measurements in the protection circuits.

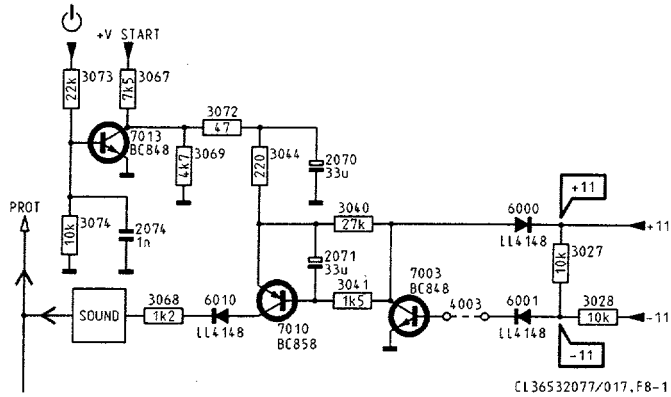
All hardware circuits are illustrated in figure 8.2.
The oscillograms indicate the voltages on the relevant test points immediately after the set is switched on.
In this case the signals illustrated are for during:
- normal operation
- protection caused by this circuit (PROT);
- protection caused by another protection circuit (N-PROT).

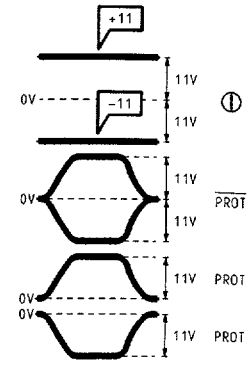
Faultfindingtree



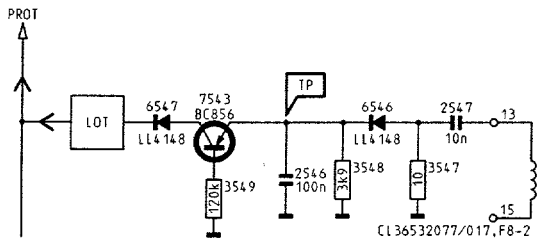
Protection

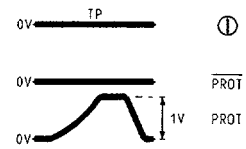
+11 V
-11 V

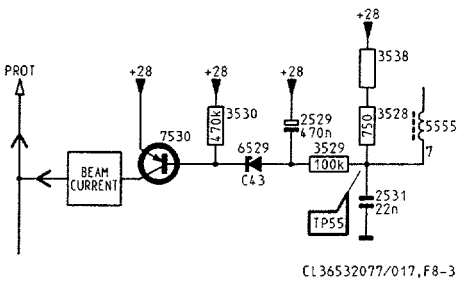




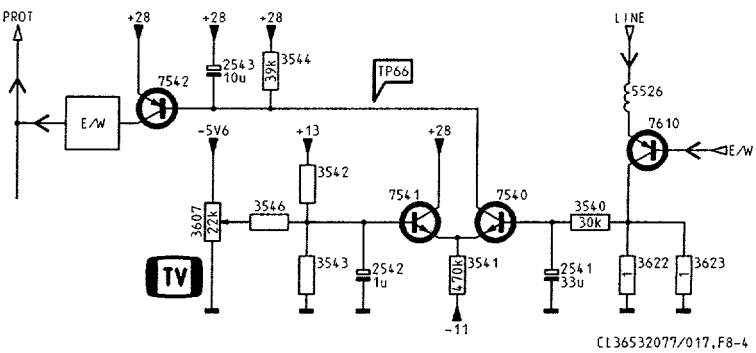
EHT

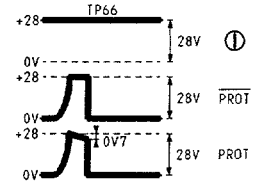


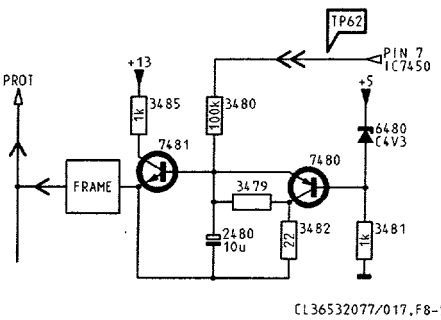


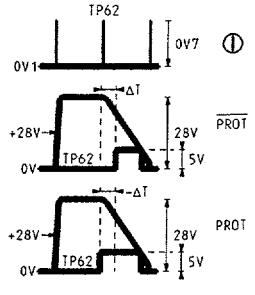


TV

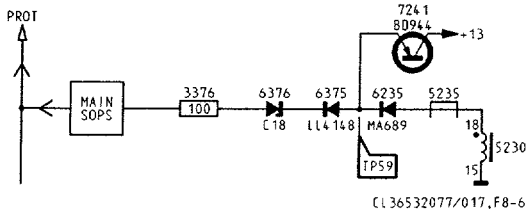


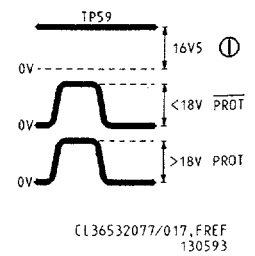






+V





CL36532077/017.FREF
130593

Fig. 8.2

List of error messages

Error number on screen	Flashing LED							Description of error
	📡/🔇	⏩	∞	⏻	⏻	I	II	
1[1]			X		X	X		I^2C, IC7108, SSP [H] (MSM6307)
3					X	X		I^2C, IC7215, 100Hz SAA 9042 [L] I^2C, IC7111, TXT SAA 9042 [L']
4				X		X		I^2C, IC7220, 100Hz [M] [L'} J83C652
5				X			X	I^2C, IC7408, PIP [J] (SDA9088)
6				X	X	X		I^2C, IC7600, SSP [F] (TDA8417)
7							X	I^2C, IC7680, SSP [F] (TDA8425)
8						X	X	IC7440, frame rotation [Y], PCF8574 (16:9)
9			X	X		X		I^2C, IC7430, SSP [D] (TDA4680)
10				X	X		X	I^2C, IC7395, SSP [D] (TDA8443)
11				X	X			I^2C, front-end, SSP [C] (FQ 9XX)
12						X		I^2C, IC7137, SSP [H] (X24C04)
13			X					I^2C, bus on chassis blocked
14			X	X				I^2C, IC7258, SSP [C] (HEF4094)
15			X	X	X			I^2C, IC7219, SSP [C] (TEA6414)
16			X			X		I^2C, IC7040, SAT Interface [P] (TEA6414)
17			X		X			IR-receiver on SSP [H] blocked (1100)
18				X		X	X	7115, SSP, µ proc. [H]
19			X	X	X	X		UART Bus blocked, 7115, SSP, µ proc. [H]
20				X	X	X	X	7115, SSP, µ proc. [H]
21				X				EAROM X24C08 empty, IC7137, SSP [H] (§ 8.3)
23	X				X			I^2C, IC7080, convergence panel [V] (TDA8444) (PTV)
28		X						I^2C, PIP tuner [J]
29		X			X			I^2C, IC7638, PIP-modulo [J] (SAA1300)
30			X		X		X	I^2C, IC7175, SSP [C] (PCF8574)
31			X		X	X	X	I^2C, IC7001, NICAM-panel [K] (SAA7280)
33		X		X				I^2C, PLL (1500) PIP modulo [J]
34[1]	X		X				X	LNC supply on SAT box [Q,R] not correct
35[1]	X		X		X		X	IM-bus on SAT box [Q,S] blocked
36[1]	X		X	X			X	I^2C, bus on SAT box blocked
37[1]	X		X	X	X		X	I^2C, IC7450, D2-MAC [S] (X24C02)
38[1]	X		X			X	X	I^2C, SAT Tuner [Q] (SF914; SF916)
39[1]	X		X		X	X	X	HEF STROBE 1, IC7925, FSS [T] (HEF4094)
40[1]	X		X	X		X	X	D2-MAC [S]
41[1]	X		X	X	X	X	X	HEF STROBE 2, IC7475, D2-MAC [S] (HEF4094)
42[1]	X				X		X	IC7250, TUNER/CONTROL [Q]
43[1]	X			X			X	UART bus blocked IC7250, TUNER/CONTROL [Q]
44[1]	X			X	X		X	SAT Tuner [Q] (SF914/916)
45[1]	X					X	X	IC7250, TUNER/CONTROL [Q]
46[1]	X				X	X	X	IC7250, TUNER/CONTROL [Q]
47[1]	X			X		X	X	IC7262, TUNER/CONTROL [Q]
48[1]	X			X	X	X	X	D2-MAC [S]
49[1]	X			X		X		EAROM X24C02 empty, 7450, D2-MAC [S] (§17)
51[1]					X	X	X	IC7250, TUNER/CONTROL [Q]
52[1]			X				X	D2B Bus EXT, SSP [H] blocked.
53			X			X	X	IC7330, MAC TXT [S], TPU2735
55			X	X		X	X	IC7140, Panorama [B], PCF8574 (16:9)
99	X		X		X			Protection

[1] This error is only possible on sets with built in SAT box.

- **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.**
  In case an error indication on the set is not included in this table, then check the optional codes (see § 7).

Installation

This part helps you with installing your TV, selecting your menu language, locating and storing your TV channels and composing your favourite list of programme numbers. To do this, follow the directions of the **SYSTEM INSTALLATION** menu very closely. The installation menu is shown as it will appear on your screen.

Operation

After you have stored the TV channels, you can call them up on the screen. You can adjust the picture and sound via the main menu. The **MAIN MENU** is shown here as it will appear on the screen. Feel free to try out all the different possibilities of your TV. Use this part of the handbook to help you doing this.

- o This circle in front of a sentence indicates that you have to **do** something.
- ▷ This arrow in front of a sentence indicates the **result** of what you have done.

In the stripe under each menu you are told which keys you can press and how you can switch the menus off again.

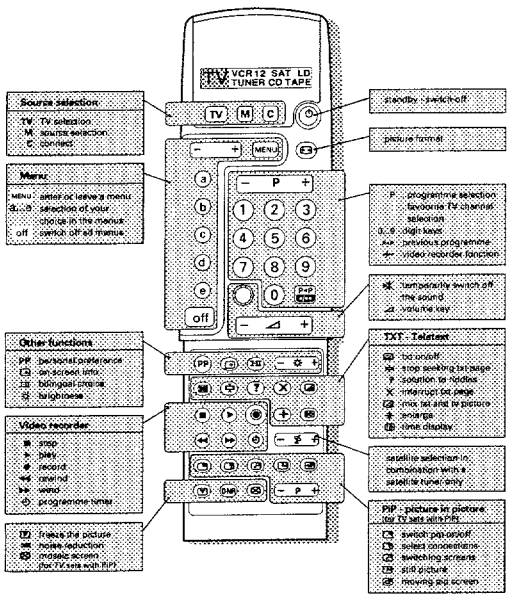
Contents

Installation

Selecting your Menu language
Searching for and Storing TV channels :
- Automatic
- Manual

Operation

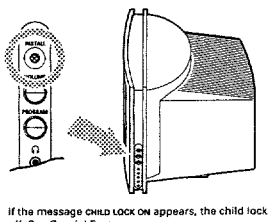
Operation
Main Menu
Other Functions
Pip Picture in Picture
Teletext
Peripheral Equipment
Tips



Selecting your menu language

You can choose **for yourself** the language of the menus - the instructions and the various possible choices - which you call up on your screen.

- o Press the **INSTALL** key on the right side of your TV set.

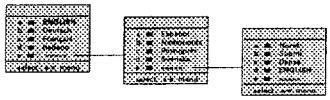


If the message **CHILD LOCK ON** appears, the child lock should be switched off. See Special Features.

- ▷ The **SYSTEM INSTALLATION** menu appears on the screen.

It is also possible to enter the installation menu via the main menu. See Main Menu.

- o Press the **red** key **a** on the remote control.
- ▷ The language menu appears on the screen.



- o Press the colour key of your language choice.
- o Press the corresponding colour key for >>>>> if the language you want does not appear on the first language menu.
- > **LANGUAGE STORED** appears for a moment at the top of the menu. The language menu disappears and the **SYSTEM INSTALLATION** menu appears again.

Searching for and storing TV channels

After you have switched on your TV and selected your menu language, you can search for and store your TV channels.
This can be done in two different ways : automatically or manually.

Automatic installation..... **or** **Manual installation**.....

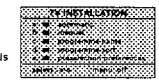
All TV channels are searched for and stored automatically. The programme numbers are filled in the programme list.
If desired you can modify the allocation of the channel numbers of one or more stored TV channels afterwards and delete or insert TV channels.

The manual installation is characterised by the possibility to select the way of searching with frequencies.
You yourself must assign a number of your choice to the TV channel located.

Follow very closely and step by step the instructions of the Manual Installation procedure.
You must go through every step.

- o Press the green key **b** in the **SYSTEM INSTALLATION** menu.
- ▷ The **TV INSTALLATION** menu appears.

Automatic installation



- o Press the red key **a**.
- ▷ **AUTOMATIC** lights up.
- o Press **MENU +** to select **YES**.
- ▷ **SEARCHING, PLEASE WAIT** appears and the TV is searching all the channels you can receive.

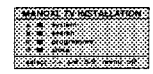
The automatic installation can be interrupted by pressing the **MENU** or **OFF** key.

- ▷ Every time a channel is found it is automatically stored in the memory under the next programme number in the programme list.
- ▷ When all channels are found the message **TV INSTALLATION COMPLETED** is displayed briefly on top of the menu.
  The programme list is automatically filled with all the programme numbers of the TV channels transmitted.
  The programme list is displayed without programme names.
  Now you yourself must assign a name to the TV channels located.

> The menu **TV INSTALLATION** appears again.

Manual TV installation

- o Press the green key **b** in the menu **TV INSTALLATION**.
- ▷ The menu **MANUAL TV INSTALLATION** appears.



step a Selecting the TV system

The television picture is not broadcast in the same way in all countries.
We speak of different television systems (PAL, SECAM, NTSC, ...).
Now you must select the TV system **yourself**.

- o Press the red key **a**.
- ▷ The **SELECTING THE SYSTEM** menu appears..... **or** **ONLY ONE SYSTEM AVAILABLE** appears.....

1 You have your own aerial.
- o Press the colour key of the country or part of the world from where you want to select the TV channel.
- ▷ The **MANUAL TV INSTALLATION** menu now appears.
- ▷ Your selection lights up.

2 You are connected to the cable system.
- o Press the colour key of the country or part of the world where you now are located.
- ▷ The **MANUAL TV INSTALLATION** menu now appears.
- ▷ Your selection lights up.

Go on to step **b**.

If you have pressed the wrong key, then repeat step **a**.

You have a set that can receive only one system.
You do not need to make any selection.

Go on to step **b**.

step b Searching for a TV channel

- o Press the green key **b**.
- ▷ **SEARCHING** appears and the TV is searching for a channel.
- ▷ The frequency increases until a channel is found.

Go to step **c** if you want to store the channel that has been found.

- o Press ⊡ under the door of the remote control to recognise which programme is being broadcast.
- ▷ The **MANUAL TV INSTALLATION** menu disappears temporarily.

Do you want a different channel or is the reception poor?
- o Press the green key **b** again.

Is the reception still poor? See Tips.

Fine-tuning :

You may be able to improve the reception of picture and sound of a TV channel. Adjust the frequency yourself with the **MENU** - or + key on the remote control.

Direct selection of a TV channel :

If you know the frequency of a TV channel, you can enter it directly with the digit keys on the remote control and in this way call up the TV channel.
Ask for a list of the frequencies at your cable company or at your dealer.

- o Enter the 5 digits of the desired frequency.
- o For frequencies under 100 MHz, first enter a 0. For example : 063.25.

Have you entered a wrong number?
First complete the frequency with arbitrary numbers and then start again.

Go on to step **c**.

step c Entering the programme number

Now you must assign a number of your choice to the TV channel located. In this way you decide for yourself the order of all your TV channels.
With the assigned programme number you can call up your TV channel again later.

- o Press the **yellow** key **c**.
- ▷ Hold down the **P** - or + key or use the digit keys on the remote control until the desired programme number appears in the menu.

Go on to step **d**.

step d Storing steps a to c

Now the TV system, the located TV channel and its programme number must be stored in the memory.

- o Press the **blue** key **d**.
- ▷ **PROGRAMME STORED** appears briefly at the top of the menu.
- > The TV channel is stored in the memory.

repeat Do you want to store another TV channel?

- Repeat steps a to d.

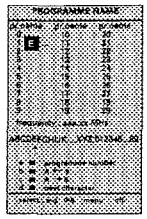
Are you connected to the cable system?
- Begin immediately with step b. You have already selected the TV system in step a for all channels.

out Have you finished locating TV channels?
- Press MENU.
- ▷ The TV INSTALLATION menu appears again.

Entering or modifying a programme name

Now you yourself must assign a name to the TV channels located. A name of maximum 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1, ...

- Press the yellow key c.
- ▷ The PROGRAMME NAME menu and the programme list appear. Also the frequency of the current TV channel is displayed.
- Press ⊡ under the door of the remote control to recognise which programme is being broadcast.
- ▷ The menu PROGRAMME NAME disappears temporarily.
- Press the red key a.
- *Select the TV channel of which you want to change the name or to* which you want to assign a name with the digit keys or with P - or +. External sources can not be selected with P - or +.



In the list you can now modify or enter the name of the TV channel. With the arrow under the letter and number line you select which letter or number in the list above you wish to enter. In the list there is a red or white block next to the chosen programme number.

- Hold as desired , either the green key b down to move the arrow to the left, or else the yellow key c to move the arrow to the right.
- ▷ The letter or number that you indicate with the arrow appears in the block.
- Press the blue key d.
- ▷ The block moves over one space. Now you can choose a following letter or number with the arrow.
- Place the arrow between Z and 0 for a space.

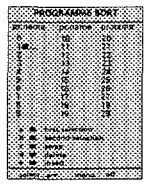
Did you fill in a wrong letter or number?
Press repeatedly on the blue key d until the block is back in the place where you want to make a change.
Now choose with the arrow the correct letter or number.

Are the complete names filled in?
- Press MENU.
- ▷ The TV INSTALLATION menu appears again.

Modifying the programme list

According to your preference you can modify the programme list of the stored TV channels by swapping, deleting or inserting certain TV channels.

- Press the blue key d.
- ▷ The PROGRAMME SORT menu appears.



a. swap

With the swap-function you can modify the allocation of the stored TV channels.
- Press the red key a.
- ▷ FIRST SELECTION lights up.
- Select the programme number of the TV channel of which you want to modify the programme number with the digit keys or with P - or +.
- Press the green key b.
- ▷ SECOND SELECTION lights up.
- Select the programme number of the TV channel which you want to swap with the programme number selected in your first selection.
- Press the yellow key c.
- ▷ PROGRAMMES SWAPPED appears briefly at the top of the menu.
- ▷ The TV channels and their names selected in the first and the second selection are swapped.
- Repeat this for all the other TV channels you want to replace.

b. delete

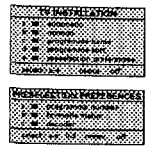
With the delete-function you can remove the TV channels you do not like to have in the programme list anymore.
- Select, with the digit keys or with P - or +, the programme number you want to delete .
- Press the blue key d.
- ▷ DELETE lights up and the programme number and name of the TV channel to be deleted starts flickering in the FIRST or SECOND SELECTION line.
- Press MENU + to select YES.
- ▷ DELETING PROGRAMME appears briefly at the top of the menu.
- ▷ The selected TV channel is deleted , its place is taken by the next programme and the subsequent programme numbers are shifted up one place.
- Repeat this for all the other TV channels you want to delete.

c. insert

You can add a TV channel at the place you like in the programme list with the insert-function of the programme sort menu.
- Press the red key a.
- ▷ FIRST SELECTION lights up.
- Select, with the digit keys or with P - or +, the programme number where you want to create an empty place to insert a new TV channel.
- Press the white key e.
- ▷ INSERT lights up.
- Press MENU + to select YES.
- ▷ INSERTING PROGRAMME appears briefly at the top of the menu.
- ▷ All the programmes starting from the one indicated in the programme list are shifted one place downwards. The programme number of the empty place appears in red. You can now insert a new TV channel with the MANUAL TV INSTALLATION method. See earlier.

Are all the TV channels allocated as you like ?
- Press MENU.
- ▷ The TV INSTALLATION menu appears again.

Preselection preferences



All the stored TV channels have been automatically placed into the programme list. In the PRESELECTION PREFERENCES menu you yourself should indicate for each stored TV channel if you want to keep that programme number as a favourite.
You can do this also for a programme number you want to reserve for the programmes you receive from your decoder.
This will make selecting your favourite TV channels a lot easier and faster.
When you run quickly through the TV channels by holding the P - or + key pressed down, only those TV channels which are in the favourite list will be displayed.
When you select a TV channel with the digit keys, the indication of the selected TV channel will be displayed in white characters when it is a TV channel from the favourite list, in red characters when it is a TV channel which is not in the favourite list.

a Favourite TV channels

- Press the white key e in the TV INSTALLATION menu.
- ▷ The PRESELECTION PREFERENCES menu appears.
- Press the red key a.
- ▷ PROGRAMME NUMBER lights up.
- Select the programme number of a TV channel with P - or + or with the digit keys.
- *Press the green key b.*
- ▷ FAVOURITE STATUS lights up.
- Press MENU - or + to select NO or YES.
  In this way you decide whether you want to keep the selected TV channel as a favourite TV channel or not.
- Repeat this for each programme number.

b Decoder

In case you have connected a decoder, see Decoders, you can define one or more programme numbers as a decoder preselection.
- Press the red key a in the PRESELECTION PREFERENCES menu.
- ▷ PROGRAMME NUMBER lights up.
- Select the programme number under which you want to store the programme coming from your decoder with P - or + or with the digit keys.
- Press the yellow key c.
- ▷ DECODER lights up.
- Press MENU - or + repeatedly until the designation EXT1 or EXT2 appears according to the euroconnector to which you connected your decoder. This is not possible with a decoder connected to EXT3.
  Select NO if you do not want the selected programme number being activated as a decoder preselection.
- Press MENU twice.
- ▷ The SYSTEM INSTALLATION menu appears again.

Photo CD/CD-I

In case you have connected a photo Compact Disc or a Compact Disc Interactive see Peripheral Equipment.
- Press the yellow key c in the SYSTEM INSTALLATION menu.
- ▷ PHOTO CD/CD-I lights up.
- Press MENU + to select YES.
- ▷ This offers you an optimum picture quality for your Photo CD or CD-I.

Picture rotation

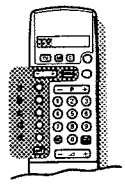
- *Press the blue key d in the SYSTEM INSTALLATION menu.*
- ▷ PICT. ROTATION lights up.
- Press MENU - or + repeatedly to adjust the rotation of the picture.
- Press off to exit the SYSTEM INSTALLATION menu.

Operation

Standby

- With the standby key ⏻ *at the top of the remote control* you can temporarily switch the TV off.
- ▷ The red lamp on the TV lights up.
- Press the C-key or a digit key in order to turn the TV on again.
  If for a period of 10 minutes no aerial signal is received, then your set automatically switches to standby.
  Your TV consumes energy in the standby mode. Energy consumption contributes to air and water pollution. We advise you to switch off your TV overnight instead of leaving it on standby. You save energy and the picture tube is demagnetised which supports good picture quality.

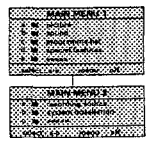
Main Menu



You use the keys in the grey area of the drawing to operate the main menu.

With the colour keys a-b-c-d-e you select your choice in the menus.

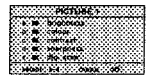
The main menu is split into 2 menus and you can:
. adjust **picture** and **sound** according to personal preference
. call up a **programme list** with an overview of the TV channels stored
. select from among various **special features**
. select **recording sources** for your video recorder
. enter the **system installation** menu.



- Press MENU.
- ▷ The MAIN MENU 1 appears.
- Press off to switch off each menu.

Adjusting the picture

- Press MENU.
- Press the corresponding colour key for PICTURE.
- The PICTURE 1 menu appears



- Press one of the colour keys to select the adjustment you want to regulate.
  When you have a set that can receive the NTSC system and when USA is selected in Selecting the TV system, also the option **tint** appears in the PICTURE 2 menu.
- The selected adjustment lights up.
- Press MENU - or + in order to regulate the selected adjustment.
- Press a colour key once more in order to select another adjustment.

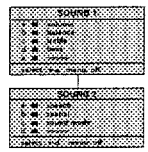
Do you want to store the changed adjustment in the memory ?
- See Special Features, PP store.

Digital scan (Line Flicker Reduction)
In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.
- Press the corresponding colour key for DIG. SCAN.
- Press MENU - in order to switch off the line flicker reduction.

- Press MENU.
- The MAIN MENU 1 appears again.

Adjusting the sound

- Press MENU.
- Press the corresponding colour key for SOUND.
- The SOUND 1 menu appears.



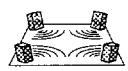
Volume, balance, treble, bass
- Press one of the colour keys to select the adjustment you want to regulate.
- The selected adjustment lights up.
- Press MENU - or + in order to regulate the selected adjustment.
- Press a colour key again to select another adjustment.

Do you want to store the modified adjustment in the memory ?
- Press MENU.
- The MAIN MENU 1 appears.
- See Special Features, PP store, .

Speech
- Press the white key 9 in the SOUND 1 menu.
- The SOUND 2 menu appears.
- Press the corresponding colour key for SPEECH.
- SPEECH lights up.
- Press MENU + to reveal the treble and to suppress the bass.
- Press MENU - to switch off.

Spatial and surround sound
- Press the corresponding colour key for SPATIAL in the SOUND 2 menu.
- SPATIAL lights up.
- Press MENU - or + to switch off or on.
- When SPATIAL ON is selected, it seems as though the loudspeakers are spread further apart from one another. You get a spatial sound effect.

You achieve a Surround Sound effect if you have 2 or for a maximum effect 4 extra loudspeakers connected. See Peripherals.
In case of 2 extra loudspeakers, always connect them to REAR at the back of your TV.
In case of 4 extra loudspeakers,connect them to FRONT and REAR.



- Press the loudspeaker switch on the back of the TV out.
- The internal loudspeakers of your TV are now switched off.
- Place the loudspeakers in the corners of an imaginary square.

Mono broadcasting activates the two loudspeakers of your TV set or the two loudspeakers connected to FRONT and REAR.
- Select SPATIAL ON.
- You get a pseudo stereo effect.

Stereo broadcasting activates the two loudspeakers of your TV or the two loudspeakers connected to FRONT and the two loudspeakers connected to REAR.
- Select SPATIAL ON.
- You get a spatial stereo effect.

Sound mode
- Press the corresponding colour key for SOUND MODE in the SOUND 2 menu.
- SOUND MODE lights up.
- If the TV channel which you are now watching transmits stereo or digital sound and if your set is equipped with Nicam, you can choose between :
  . **stereo** or **mono** if the TV channel transmits *stereo* sound
  . **digital** or **analogue** if the TV channel transmits *digital* sound.
- Select **analogue** or **mono** in case of weak digital or stereo sound signals.
- Press MENU - or +.

If you do not make a sound choice for the TV channel which you are watching your TV will choose between stereo or digital sound, depending on the sound the TV channel transmits.

- Press MENU.
- The MAIN MENU 1 appears again.

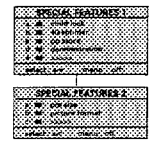
Programme list

- Press the corresponding colour key for PROGRAMME LIST in MAIN MENU 1.
- A list with an overview of the first 30 stored TV channels appears.
  TV channels from the favourite list are displayed in white characters.
  TV channels which are not in the favourite list are displayed in red characters.
- Press MENU - or + to run through the other pages (to 99) of the programme list.
- Press MENU.
- The MAIN MENU 1 appears again.

- Press **off**.
- The MAIN MENU disappears.

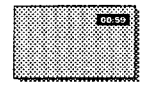
Special features

- Press MENU.
- Press the corresponding colour key for SPECIAL FEATURES.
- The SPECIAL FEATURES 1 menu appears.



- Press a colour key in order to choose between child lock, sleeptimer, pp store, demonstration, pip size (for sets with the Picture in Picture option) or picture format.
- Your choice lights up.
- Press once more on a colour key to make another choice.

Child lock
If the child lock is on, the TV can only be switched on with the digit keys on the remote control. The keys on the TV cannot be used.
If the message CHILD LOCK ON appears, the child lock should be switched off.
- Press the corresponding colour key for CHILD LOCK.
- Press MENU - or + to switch the child lock off or on.

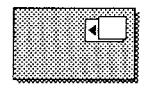


Sleeptimer
With the aid of the sleeptimer you can set the time when the TV should switch itself off.
- Press the corresponding colour key for SLEEPTIMER.
- Hold the key MENU + prassed down.
- The counter runs from **off** up to **90** minutes.
- Hold the key MENU - pressed down.
- The counter runs from **90** down to **off**.
  If you have set a time, then one minute before the TV switches off the remaining minute automatically appears on the screen.
  You can always switch off your set earlier or change the time set.

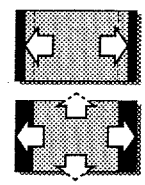
PP store
Adjustments made in the picture- and sound menu can be stored in the memory and be called up again with the **PP** key.
- Press the corresponding colour key for PP STORE.
- PP STORE lights up and PERSONAL PREFERENCE STORED appears briefly on the top of the menu.
  At this point all previous adjustments are cancelled.
  See also Other functions.

Demonstration
This function demonstrates one after another all the possible options of your TV.
- Press the corresponding colour key for DEMONSTRATION.
- Press MENU + to switch the demonstration on.
- Press **off** in order to stop the demonstration.

Pip size
You can select either a large or a small pip format.
- Press the corresponding colour key for PIP SIZE in the SPECIAL FEATURES 2 menu.
- Press MENU - or +.
  For more information about Pip, see Pip, Picture in Picture.



Picture format
A programme in the conventional picture format can be expanded so that you can take full advantage of your wide screen.
- Press the corresponding colour key for PICTURE FORMAT.
- Press MENU - or + repeatedly to select NORMAL, PANORAMA or EXPAND in order to choose between a conventional, a panoramic or a full expanded picture format.



Recording Source

If you want to record a programme, then first read Peripherals, Recording.

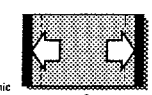
System Installation

You can also enter the System Installation menu via the Main Menu 2 to select your menu language and to locate and to store your TV channels.

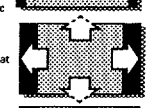
Other functions

Picture format

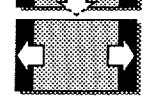
- Press repeatedly to select
  . or a conventional picture format
  . or a panoramic picture format
  . or a full expanded picture format
  . or a wide screen picture format.



- The information PANORAMA appears briefly on the screen if a panoramic picture format has been selected.
- The information MOVIE EXPAND appears briefly on the screen if a full expanded picture format has been selected.
- Keep MENU + pressed to move the full expanded picture upwards so that the subtitles, if there are, become visible at the bottom.
- Keep MENU - pressed to move the full expanded picture downwards again.
- The information WIDE SCREEN appears briefly on the screen if a wide screen picture format has been selected.



Making subtitles visible from pictures from VCR1, VCR2 or SAT in the MOVIE EXPAND picture format



- Press the TV key on the remote control.
- Keep MENU + or - pressed to move the picture upwards or downwards again.
- Press the M again until the designation **VCR1**, **VCR2** or **SAT** appears in a grey block.
- Now you can operate your video recorder 1 or 2 or satellite tuner again with the remote control of the TV.

Previous programme

- Press the P•P key.
- The previous selected TV channel is displayed again.
  The ⇄ indication has a video recorder function.

Selecting satellites

The keys ⚷ - and + are only functional when having connected a satellite tuner in combination with a satellite positioner and an automatically rotatable polarmount antenna to select satellites.

PP key

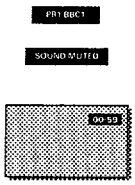
With the green **PP**-key you can call up again the picture and sound adjustments which have been stored with the **PP store** in the Special Features menu.

- Open the door of the remote control.
- Press **PP**.

Information on screen

After the selection of a TV channel the following information appears briefly on your screen :

. the programme number and name of the selected TV channel
. the actually selected sound mode if the TV-channel transmits stereo or digital sound
. SOUND MUTED when the sound is temporarily interrupted
. the name of the pip connection if pip is switched on. See Pip-Picture in Picture.
. DUAL I or II in case of bilingual broadcast.



- Open the door of the remote control.
- Press **short**.
- The channel information appears on the screen for a few seconds.
- If the sleeptimer is on, then the remaining time becomes visible.

Permanent programme number

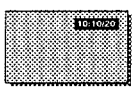
- Open the door of the remote control.
- Press **long**.
- The channel information appears on the screen for a few seconds and the permanent programme number remains in the upper right hand corner of the screen when it was off, or disappears when it was on.

Bilingual Broadcast

If you are watching a TV channel which is being broadcast in two languages, dubbed and original language, you can make your choice.

- Open the door of the remote control.
- Press key I-II and select language I or II.
- DUAL I or II appears for a moment on top of the screen. The setting is stored in the memory for the selected TV channel when switching to another TV channel or to standby.

Time



The time can only be called up if the TV channel you are watching is also broadcasting teletext.
Teletext does not need to be switched on.

- Open the door of the remote control.
- Press .
- The time appears in the upper right hand corner of the screen.
- Press again in order to switch off.

Freezing the picture

When watching you can freeze the picture at any moment.

- Press .
- Press again to return to normal picture.

DNR

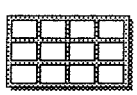
With DNR, Dynamic Noise Reduction, you can reduce the noise when receiving a weak signal and so improve the picture quality.

- Press the DNR key repeatedly to select DNR MIN, DNR MED, DNR MAX or DNR OFF.
- Your selection appears for a moment on top of the screen. DNR MED offers you an optimum picture quality, and it is the most ideal setting for signals of normal strength. DNR MAX is **not** necessary when the picture quality is good.

The setting is stored in the memory only for the selected TV channel after you have switched to another TV channel.

Mosaic screen

With the mosaic screen, you can scan the TV channels stored in the favourite list, display successive frozen pictures with the photo finish function and reproduce the main picture image by image with the strobe function.



- Press .
- A menu line appears on the bottom line of the screen. It contains four functions, each having another background colour, corresponding to the menu colour keys.
- Press the corresponding colour key to activate one of the 4 functions.

Scan

- Press the **red key a**.
- A scan of the stored TV channels is performed, starting with programme number 0. Only TV channels placed in the favourite list or programmes from switched on peripherals are displayed. On the last position, bottom right, a live picture is shown of the programme that was displayed before the mosaic screen was switched on.
- Press the **red key a** again.
- A following series of stored TV channels from the favourite list or programmes from switched on peripherals is scanned. Each mosaic-picture will contain its belonging programme number.
- Select a TV channel with the digit keys.
- The mosaic screen disappears and the selected TV programme will be displayed.
- Press the blue key d to interrupt the scan function and to switch off the mosaic screen.

Never perform a scan while recording a TV programme with a video recorder connected to EXTERNAL 1, 2 or 3 and when having selected an option in the Recording Source menu since the scan will be recorded on tape.

Photo finish

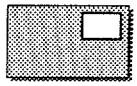
- Press the green key b.
- The main picture is displayed in successive frozen pictures. The last picture on the bottom right will remain live.
- Press the green key b again.
- A new photo finish picture is displayed, overwriting the old one.
- Press the blue key d to switch off the photo finish function and to switch off the mosaic screen.
- The programme that was selected before the mosaic screen was switched on, appears again.

Strobe

- Press the yellow key c.
- The picture is reproduced image by image. So you get an interrupted movement.
- Press the yellow key c again.
- The picture is reproduced image by image in a faster way.
- Press the yellow key c once again.
- The strobe function is switched off.
- Press the blue key d to switch off the mosaic screen.

Pip - Picture in Picture

Switching pip on and off

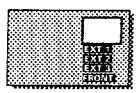


- Open the door of the remote control.
- Press .
- The pip screen appears and the image is the same as in the main screen.
- The name of the pip programme appears briefly on the main screen.
- Press again to switch pip off.

Selecting pip programmes

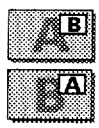
- Press - P + of the pip keys in order to change the TV channels in the pip screen.

Selecting pip connections



- Press repeatedly.
- The name of the connections appear. If any other electronic unit is connected with a eurocable and switched on, its programmes appear in the pip screen. Use - P + of the pip keys in order to change the TV channel in the pip screen. For connecting equipment to EXTERNAL 1, EXTERNAL 2, EXTERNAL 3, FRONT, see Peripheral Equipment.

Switching screens

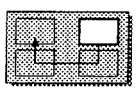


- Press .
- The main screen and the pip screen exchange places. If the TV channel is only in the pip screen and not in the main screen, then use - P + of the pip keys in order to change your TV channel in the pip screen.

Still Picture

- Press .
- The picture in the pip screen stands still. Even when pip is not switched on, the main screen will appear as a still picture in the pip screen.
- Press again or select another channel in the pip screen in order to cancel the still picture.

Moving the Pip screen



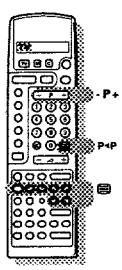
- Press .
- Each time you press this key, the pip screen moves to another corner of the main screen.

If the main screen is a full expanded picture format, the pip screen only moves to the upper left hand corner of the main screen.

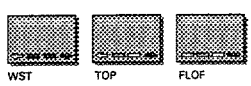
Pip Size

You can select either a large or a small pip screen.
See Main Menu : Special Features.

Teletext



Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the index (usually page 100). TV programmes are sometimes subtitled for the hard of hearing. Depending on the TV channel, teletext is transmitted in different systems: WST, TOP, FLOF. The system utilised is indicated in the options line at the bottom of the screen.



Switching Teletext On and Off

- Select the TV channel for the desired teletext broadcast. Teletext cannot be switched on when there is a menu on the screen.
- Open the door of the remote control.
- Press in order to switch on the teletext.
- The contents appear on the screen together with two information lines at the top and an options line at the bottom.

When a selected teletext page contains several subpages, the subpage numbers which are automatically stored in the memory appear in the first information line. The coloured number indicates the displayed subpage. The white numbers refer to the subpages which can be selected with MENU - or +.

In the following information line appears:
. the name of the TV channel selected
. the page counter
. date and time.

- Press again in order to switch off the teletext.
- The TV channel reappears.

Easy Teletext system

The major advantages of this new teletext system are :

A considerable **reduced waiting time** by predicting what the user will probably select and which results in :
. a fast and direct selection of previous and following pages which are in transmission
. the precapturing of the pagenumbers read from the displayed page
. the direct selection of the last 2 page numbers selected with the digit keys
. the precapturing of the pages referred to in the options line
. the creation of a **habit watcher list** : not predictable pages, being selected by the user, are put in a list of preferred pages so that they are immediately available afterwards. The pages are stored in the memory when switching off teletext or when switching to standby.

The precapturing of up to **9 subpages** to be controlled by the teletext user.

Selecting a Teletext Page

With the digit keys ..... **or** **With the options line** .....

- Enter the desired page number with the digit keys.
- ▷ The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
- ▷ A message appears when you have entered a not existing or an incorrect page number. Page numbers beginning with 0 or 9 do not exist.
- Enter the correct page number.

- Select with the colour keys, corresponding to the coloured options at the bottom of the screen and depending on the teletext the selected TV channel transmits,
  - the previous ◁= or the following =▷ pages
  - the previous selected pages
  - another subject

Quickly run through the teletext pages

- Press **P -** to run through the previous pages.
- Press **P+** to run through the following pages.

Selecting the previous teletext page

- Press the **P◂P** key.
- ▷ The previous selected teletext page is displayed again.

Selecting subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
The coloured number in the first information line refers to the displayed subpage.
The other subpage numbers appear in white as soon as the transmission has found them.

- Press **MENU -** to select the previous subpage.
- Press **MENU +** to select the following subpage.

Selecting the index teletext page

- Press the white colour key e.
- ▷ The index, usually p. 100, appears.

Special teletext functions

- Open the door of the remote control.

Hold
You can stop the page counter from seeking when you have entered a wrong page number or when the page is not available.

- Press ⏩.
- ▷ ⏩ appears in the first information line.
  The page counter stops seeking the entered page number.
- Enter another page number.
- ▷ ⏩ disappears.

Reveal
Some pages contain concealed information, such as solutions to riddles and puzzles.
- Press **?** to call up concealed information.
- Press **?** again in order to switch off the concealed information.

Interrupt

- Press ✕.
- ▷ The TV programme appears.
- ▷ ☰ at the top of the screen indicates that you are still in the teletext mode.
  Before interrupting teletext, you can select a page number.
  When the page has been found, the page number appears on your screen.
- Press ✕ again.
- ▷ Teletext reappears.

Mix
- Press ⧄.
- ▷ The teletext page and the TV programme appear on the screen at the same time.
- Press ⧄ again.
- ▷ Only the teletext page is displayed.

Enlarge

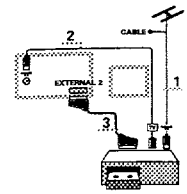
- Press ⏷ to enlarge the top half of the teletext page.
- Press ⏷ again to enlarge the bottom half of the teletext page.
- Press once more to return to normal page size.

Subpage
By adding a subcode you can call up a desired subpage.
- Enter the page number.
- Press ⧉.
- Enter the desired subpage with the digit keys : e.g. 3 for the third page of saven subpages.
- Press ⧉ in order to cancel the subcode.

Subtitles and newsflashes
- Select the contents page (usually page 100).
- Select the page number for subtitles or newsflashes.
- ▷ Subtitles or newsflashes, if there are, appear at the bottom of the TV programme.

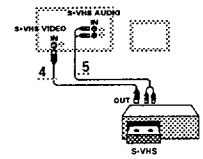
Peripheral Equipment

There is a wide range of electronic equipment that can be connected to your TV.
The following connection diagrams show you where the different equipment should be connected at the back or the right side of the TV.



TV and video recorder
- Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect a eurocable **3** additionally.

S-VHS video recorder



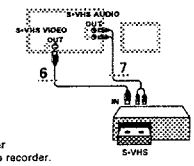
- Do you have a S-VHS video recorder with S-VHS connectors, then connect as well as the aerial cables **1** and **2**

the S-VHS cables **4** and **5**

and the S-VHS cables **6** and **7**.

Do not connect an additional eurocable.

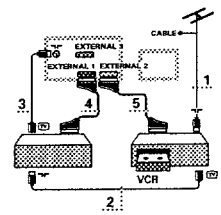
OR



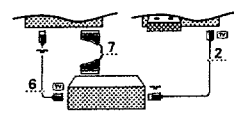
- Do you have a S-VHS video recorder with a S-VHS euroconnector, then connect as well as the aerial cables **1** and **2**, the S-VHS eurocable **3**.

Never connect to the same TV one video recorder with S-VHS cables at the same time as one video recorder with a euroconnector.
The euroconnector has no function.

Searching for and storing the testsignal of the video recorder
- Unplug the aerial cable of the aerial socket "I" of your video recorder.
- Switch on your TV and put the video recorder on the testsignal. (See the handbook for your video recorder.)
- Press the **INSTALL** key at the right side of your TV, or enter the System Installation menu via the main menu.
- ▷ The **SYSTEM INSTALLATION** menu appears.
- Search for the testsignal of your video recorder in the same way as you searched for and stored the TV channels. See Installation, Searching for and storing TV channels.
  Store the testsignal either under programme number 0 or between 50 and 99.
- Insert the aerial plug again into the aerial socket "I" of your video recorder after you have stored the testsignal.



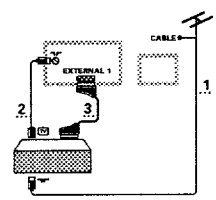
TV, video recorder 1 and one or more peripherals
- Connect the aerial cables **1**, **2** and **3** as shown alongside. A better picture quality is obtained if you connect the eurocable **4** to **EXTERNAL 1** or **3** and the eurocable **5** to **EXTERNAL 2** additionally.
- Look for the test signal of your peripheral in the same way as you do for a video recorder.



When having more peripherals, you can also connect them to each other with an extra aerial cable **6** and an additional eurocable **7** to obtain a better picture quality.

Only with a video recorder connected to **EXTERNAL 2** it is possible to record a programme from your TV as well as from other connected equipment. See Recording with your video recorder.

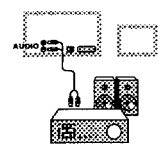
TV and laser disc or satellite tuner or Photo CD/CD-I equipment



- Connect the aerial cables **1** and **2** as shown alongside.
  A better picture quality is obtained if you connect the eurocable **3** additionally.
  See also Installation, Photo CD/CD-I, if you connect a Photo CD/CD-I equipment.

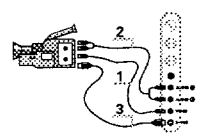
Look for the test signal of your equipment in the same way as you do for a video recorder.

Audio equipment
You can listen to your TV sound via your audio equipment.



- Therefore connect the audio cables to the audio input of your equipment and to **AUDIO L** and **R** at the back of your TV.
- Press 🔇 on the remote control.
- ▷ The loudspeakers of your TV are switched off.

Camera and camcorder

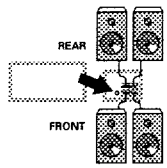


- Connect your camera or camcorder to **FRONT** at the right side of your TV.
- Connect the equipment to **VIDEO 1** and **AUDIO L 2** for mono equipment.
- In the **SOUND** menu select mono sound. See Main Menu, Adjusting the sound, Sound mode.
- Connect also **AUDIO R 2** for stereo equipment.
- In the **SOUND** menu select stereo sound.
  S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VHS** input **3** and **AUDIO** inputs **2**.

Extra loudspeakers

To achieve a better sound effect you can connect 2 of 4 extra loudspeakers, min. 8 Ohm.
See also Spatial and Surround sound.

- Hold the connector clip pressed in and insert the ends of the wires into the openings. On the back of the TV it is indicated where you connect the FRONT and REAR loudspeakers.



In case of 2 extra loudspeakers:

- Connect them to FRONT ..... **or**
- Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.
- ▷ You achieve a better front sound effect.

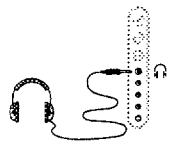
- Connect them to REAR.
- ▷ You achieve a surround sound effect.
A loudspeaker kit to achieve Surround Sound, containing two extra boxes only to be connected to REAR and 12 m wire can be purchased from your dealer.
Do never connect the loudspeakers from these kit to FRONT.

In case of 4 extra loudspeakers :

- Connect them to FRONT and REAR.
- Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.

Headphone

- Insert the plug into the headphone socket 🎧 at the right side of the TV.
- Press 🔇 on the remote control.
- Adjust the volume with ◿ - or +.
- ▷ The internal loudspeakers of your TV are switched off.
The headphone socket has an impedance of between 8 and 4000 Ohm and is of the 6.3 mm jack type.

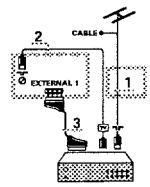


Decoders

Cable TV offers you a wide choice of programmes. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.
For further information, ask your dealer. See also the booklet supplied with your decoder.

Connecting a decoder with an aerial socket to the TV

- Connect the aerial cables **1** and **2** as shown alongside.
When your decoder has a eurocconnector you obtain a better picture quality if you connect a eurocable **3** additionally to EXTERNAL 1.



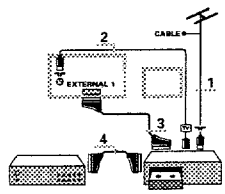
Connecting a decoder without an aerial socket to the TV

- Connect the decoder with your TV with a eurocable **3** only.

Connecting the decoder to the video recorder

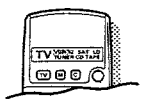
Some video recorders have a special euroconnector for decoder.

- Connect a eurocable to the euroconnector of your decoder and to the special euroconnector of your video recorder.
See also the handbook of your video recorder.
- To connect your video recorder to the TV, see before.



If you want to connect more equipment to your TV, consult your dealer.

Reproducing Picture and Sound



Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.
Then press **M** on the remote control repeatedly until the designation **VCR1, VCR2, SAT, LD, TUNER, CD** or **TAPE** appears in a grey block, according to the equipment.
To operate your TV again, first press the **TV** key and enter the programme number of the TV channel you want to watch with the digit keys.

a. from equipment connected only with an **aerial cable**

- Switch your TV on.
- With the digit keys select the programme number under which you have stored the test signal.
- Switch on your equipment.
- ▷ The picture and/or sound is reproduced.

Do you want to watch TV again ?
- Enter the programme number of the TV channel which you want to watch with the digit keys.

b. from equipment connected with a **eurocable**

- Switch your TV on.
- Switch your equipment on.
- ▷ Either the picture and/or the sound is reproduced or descrambled.

If this is not the case :
- Press **C** repeatedly until the designation EXT1, EXT2, EXT 3 or FRONT appears on the screen, according to where you connected your equipment at the back or the right side of your TV.
- ▷ Either the picture and/or the sound is reproduced.

Do you want to watch TV again ?
- Press **C** repeatedly again until the picture and/or the sound from the TV channels is reproduced.

c. from a S-VHS recorder connected with **S-VHS cables**

- Switch your TV on.
- Press **C** repeatedly until the indication EXT2 appears on the screen.
- Switch your S-VHS recorder on.
- ▷ The picture stored in your video recorder from a pre-recorded cassette or from a TV channel is reproduced.

d. from equipment connected to the **right side** of the TV

- Switch your TV on.
- Press **C** repeatedly until the indication FRONT appears on the screen.
- Switch your equipment on.
- ▷ The picture is reproduced.
Do you want to watch the TV picture again ?
- Enter the programme number of the TV channel which you want to watch with the digit keys.

Recording with your video recorder

1. Recording a TV programme

only using an **aerial** cable

- Select the programme number on your video recorder.
- Set your video recorder to record.
(See the handbook for your video recorder.)

using a **eurocable** connected to the euroconnector EXTERNAL 2

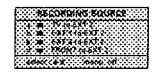
- Select the programme number on the TV.
- Press MENU.
- Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- ▷ RECORDING SOURCE appears.
- Press the red key a.
- ▷ TV TO EXT 2 is displayed.
- Press off.
- Set your video recorder to record.
(See the handbook for your video recorder.)

using a **eurocable** connected to the euroconnector EXTERNAL 1

- Select the programme number on the TV.
- Set your video recorder to record.
(See the handbook for your video recorder.)

2. Recording a programme from equipment connected to EXTERNAL 2, EXTERNAL 3 or FRONT

- Switch on the equipment.
- Press MENU.
- Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- ▷ RECORDING SOURCE appears.
- With the colour keys select the connection from which you want to record.
- ▷ Your selection lights up.
- Press off.
- Set your video recorder to record.
(See the handbook for your video recorder.)



Tips

Poor Picture
Have you selected the correct TV system ?
Is your TV set or house aerial located too close to loudspeakers,non-earthed audio equipment or neon lights, etc. ?
Mountains or high buildings can cause double pictures or ghost images.
Sometimes you can improve the picture quality by changing the direction of the outside aerial.
Is the picture unrecognisable ? Check if you have entered the correct frequency or adjust the frequency by fine tuning. See Installation.
Are brightness and contrast out of adjustment ? Press the **PP** key.
Switch off your TV overnight with ⏻ on the left side of the TV.

No picture
Is the aerial connected properly ? Are the plugs tightly connected in the aerial socket ?
Is the aerial cable in good condition and does it have suitable plugs ? Are the connection facilities to a possible secondly installed TV in good condition ? If in doubt, consult your dealer.
NO PICTURE means that the selected peripheral equipment is transmitting no picture.
Did you press the correct keys on the remote control ? Try it once more.
Did you press 🗎 again after switching on teletext ?
Has the child lock been switched off ? See Special Features.

Sound
Did you perhaps interrupt the sound with the 🔇 key ?
Were the internal loudspeakers perhaps switched off by the switch on the back of your TV set ? See Extra loudspeakers.
Is the sound coming out of only one loudspeaker ? Was the balance perhaps set to one extreme ? See SOUND menu.
Select SPATIAL ON in the Sound menu if there is no sound coming out of the extra loudspeakers in back. See Spatial and Surround Sound.

Remote control
Does your TV no longer respond to the remote control ? Check whether the indication **TV** appears in a grey block.
Perhaps the batteries are empty.

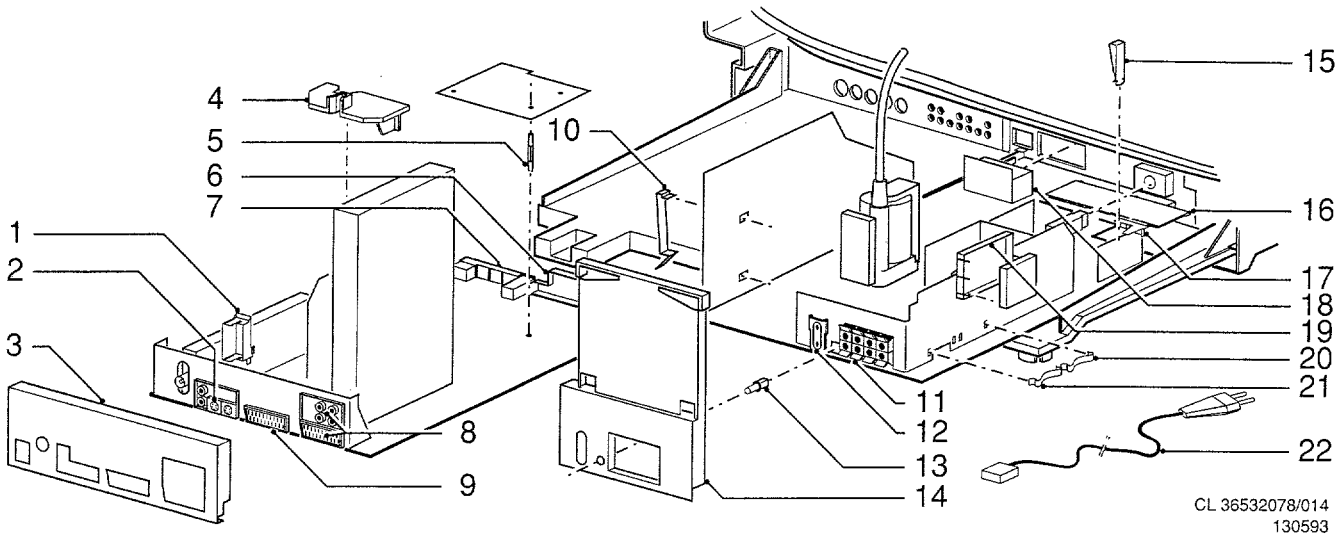
Menu
Did you select the wrong menu ? Once more press MENU or **off** to exit from the menu.

Connections
Check whether your peripheral equipment is in fact properly connected.
Have you switched on the peripheral equipment ?

No solution ?
Switch your TV set off and then on again.
Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician when nothing helps.

Ohjeita laitteen käytöstä poistamiseksi
Laitteessa käytettyjä materiaaleja voidaan kierrättää ja käyttää uudelleen, jos purkamisen hoitaa tähän erikoistunut liike. Suosittelemme noudatettavaksi vanhojen laitteiden kierrätyksestä annettuja paikallisia ohjeita.

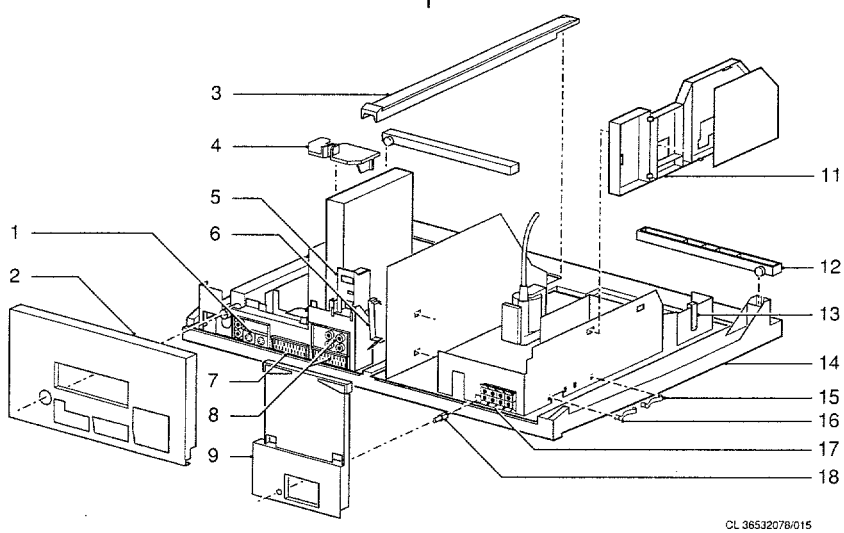
10. Exploded view & Mechanical parts list



CL 36532078/014
130593

Mechanical FL1

1	4822 256 91807	Holder for splitter
2	4822 267 41005	Cinch/2 x SVHS connector
2	4822 267 20409	Cinch/1 x SVHS connector
3	4822 432 93132	SSP cover
3	4822 432 92767	SSP cover -/39
3	4822 432 93138	SSP cover FL1.17
4	4822 404 31196	Bracket second tuner PIP
5	4822 404 31197	Spacer
6	4822 218 21084	Keyboard
7	4822 267 41004	Headph./cinch/SVHS connector
7	4822 267 20408	Headph./cinch
8	4822 267 20427	Euro/4 x cinch connector
8	4822 267 20411	Euro/2 x cinch connector
9	4822 267 51058	Euroconnector
10	4822 492 70789	Spring
11	4822 290 60812	Connector for LS
12	4822 267 20417	Socket for LS
13	4822 410 25036	Mute knob
14	4822 432 92743	LSP cover Sq, CI
14	4822 432 92991	LSP cover FL1.17
15	4822 492 62067	Spring
16	4822 466 93027	Protection plate
17	4822 404 31167	Bracket for mains cord
18	4822 466 93002	LED block
18	4822 130 91183	LED block FL1.17
19	4822 404 31202	Bracket for DAF panel
20	4822 492 70143	Spring
21	4822 492 70788	Spring
22	4822 321 10736	Mains cord



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Mechanical FL2/4.XX

	4822 267 41005	Cinch/2 x SVHS connector FL2
	4822 267 20409	Cinch/1 x SVHS connector FL4
	4822 466 93211	SSP cover FL2
	4822 466 93231	SSP cover FL4
	4822 417 50287	Bracket
	4822 404 31196	Bracket for second tuner PIP
	4822 256 91807	Holder for splitter
	4822 492 70789	Spring
	4822 267 51058	Euroconnector
	4822 267 20427	Euro/4 x cinch connector
	4822 267 20411	Euro/2 x cinch connector FL2
	4822 267 20457	Euro/2 x cinch connector FL4
	4822 432 92839	LSP cover FL2.24 CI, Ex
	4822 432 92695	LSP cover FL2.26 CI
	4822 432 92991	LSP cover FL4
1	4822 464 70616	Bracket for mains filter FL2.24
1	4822 464 70638	Bracket for mains filter FL2.26/FL4
2	4822 462 42016	Service stand
13	4822 492 62076	Spring
14	4822 464 70615	Frame for chassis FL2
14	4822 464 70639	Frame for chassis FL4
15	4822 492 70143	Spring
16	4822 492 70788	Spring
17	4822 290 60812	Connector for LS
18	4822 410 25036	Mute knob
	4822 404 31344	bracket 3th scart panel

Spa

Large
FLx.24

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Spare parts list / Stükliste / Liste des pièces

Large signal panel FLx.24 [A] [B] [G]

	4822 265 30525	2P male white
	4822 265 20541	2P male black
	4822 265 31099	6P female blue
	4822 267 51334	10P female blue
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 265 40442	10P male
	4822 265 20509	2P male
	4822 267 41146	6P male black
	4822 267 40985	6P male eco
	4822 264 40207	3P male
	4822 267 41018	2P male red
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 265 31098	6P male blue
	4822 265 41367	10P male blue
▲	4822 265 30389	2P male
	4822 267 41142	3P male eco
	4822 267 30871	2P female
	4822 266 20163	2P female black

Various

	4822 466 93029	Insulation plate
	5322 390 20011	Vet silic.P4 20GR
	4822 492 70143	Spring 10X33mm
	4822 492 62076	Spring fix trans.
	4822 492 70788	Spring fix IC
	4822 492 70789	Spring fix trans.
	4822 290 60812	Socket for ext. loudsp.
	4822 276 13094	Switch loudsp. ON/OFF
	4822 310 31932	SOPS repair kit
	4822 320 20162	EHT cable
	4822 320 11105	Focus cable
	4822 320 20213	Vg2 cable
1010	4822 212 23892	NTSC ASSY
1026	4822 102 90038	DAF unit 32"

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2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF 20% 50V
2013	4822 122 32927	220nF 20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF 20% 100V
2020	4822 126 12816	10nF 20% 100V
2021	4822 126 12816	10nF 20% 100V
2022	4822 126 12816	10nF 20% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2028	4822 122 32927	220nF 20% 50V
2029	4822 122 32927	220nF 20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034▲	4822 122 32442	10nF 50V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2041	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 32927	220nF 20% 50V
2049	4822 122 31765	100pF 2% 63V
2050	4822 124 42362	33µF 20% 16V
2051	4822 124 42362	33µF 20% 16V
2052	4822 124 42362	33µF 20% 16V
2053	4822 124 42362	33µF 20% 16V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 32142	270pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2240	4822 124 42183	1000µF 20% 63V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 126 12876	15pF 10% 100V
2261	5322 124 21189	100µF 20% 40V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80507	330µF 20%
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V
2330	4822 122 31784	4,7nF 10% 50V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	4822 124 40272	33µF 20% 16V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2401	4822 122 32542	47nF 10% 63V
2402▲	4822 124 40246	4,7µF 20% 63V
2403	5322 124 41431	22µF 20% 35V
2404▲	4822 124 40246	4,7µF 20% 63V
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	5322 122 31647	1nF 10% 63V
2408	4822 122 31172	180pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412▲	4822 122 31173	220pF 10% 500V
2413	4822 122 31768	180pF 2% 63V
2415	4822 122 32542	47nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2450▲	4822 122 32442	10nF 50V
2451	5322 122 31647	1nF 10% 63V
2452	4822 124 41716	220µF 20% 35V
2453	4822 122 33496	100nF 10% 63V
2455	4822 122 31746	1nF 2% 63V
2456	4822 124 80457	3300µF 20% 35V
2457	4822 124 42249	1µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 33496	100nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 23495	10µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11823	270pF 10% 500V
2504	4822 126 13152	820pF 10% 3kV
2504	4822 126 13157	2,2nF 10% 3kV
2507	4822 121 42408	220nF 5% 63V
2509	4822 122 31174	2,7nF 10% 500V
2510	4822 126 12083	1nF 10% 500
2511	4822 124 41739	47µF 20% 160V
2512	4822 124 40248	10µF 20% 63V
2513	4822 124 40248	10µF 20% 63V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2521▲	4822 121 43397	680nF 5% 250V
2522▲	4822 121 43397	680nF 5% 250V
2523▲	4822 122 33382	9,1nF 5% 2kV
2523	4822 121 70435	10nF 5% 2kV
2524	4822 121 70005	15nF 5% 630V
2524	4822 121 70397	12nF 5% 630V
2525	4822 124 80604	47µF 20% 50V
2526	4822 126 11502	470pF 10% 500V
2527	4822 121 70005	15nF 5% 630V
2529	4822 124 23491	0,47µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 12761	1.5nF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 12761	1.5nF 10% 500V
2537	4822 124 80037	1000µF 20% 16V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2544▲	4822 124 41525	100µF 20% 25V
2545	4822 126 12941	10pF 10% 100V
2546	4822 126 11725	1µF 20% 5V
2547	4822 122 32566	3,9nF 10% 63V
2548	4822 126 11725	1µF 20% 5V
2551	4822 124 40195	150µF 20% 16V
2600▲	4822 124 40246	4,7µF 20% 63V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2606	4822 122 32542	47nF 10% 63V
2606	4822 122 32541	27nF 10% 63V
2609	4822 121 51243	56nF 5% 50V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 80603	4,7µF 20% 50V
2612	4822 124 80603	4,7µF 20% 50V
2613	4822 122 31784	4,7nF 10% 50V
2615	4822 122 33498	2,7nF 10% 63V
2801	4822 122 32153	1,8nF 10% 63V
2805	4822 124 40248	10µF 20% 63V
2806	4822 122 31797	22nF 10% 63V

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3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10132	1k3 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3043	4822 051 10203	20k 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3060	4822 051 10203	20k 2% 0,25W
3061	4822 051 10201	200Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52299	7k5 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069	4822 051 10622	6k2 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 051 10223	22k 2% 0,25W
3074▲	4822 051 10103	10k 2% 0,25W
3202▲	4822 053 21825	8M2 5% 0,5W
3210	4822 116 52239	120k 5% 0,5W
3211	4822 116 52239	120k 5% 0,5W
3212	4822 116 52234	100k 5% 0,5W
3213	4822 051 10823	82k 2% 0,25W
3216▲	4822 115 90309	56Ω 10% 5W
3235▲	4822 052 10108	1Ω 5% 0,33W
3238	4822 116 52268	300k 5% 0,5W
3238	4822 116 52234	100k 5% 0,5W
3239	4822 116 52268	300k 5% 0,5W
3239	4822 116 52234	100k 5% 0,5W
3240	4822 116 52268	300k 5% 0,5W
3240	4822 116 52234	100k 5% 0,5W
3241	4822 113 80635	3,3Ω 10% 5W
3242	4822 051 10122	1k2 2% 0,25W
3243	4822 116 52226	560Ω 5% 0,5W
3244	4822 051 10151	150Ω 2% 0,25W
3245	4822 116 52226	560Ω 5% 0,5W
3247	4822 051 52202	2k2 1% 0,125W
3248	4822 051 52202	2k2 1% 0,125W
3249	4822 116 52258	220k 5% 0,5W
3250	4822 116 52201	75Ω 5% 0,5W
3251	4822 051 10102	1k 2% 0,25W
3252	4822 116 52258	220k 5% 0,5W
3253	4822 116 82738	10k 10%
3255	4822 116 52243	1k5 5% 0,5W
3266	4822 051 10151	150Ω 2% 0,25W
3267	4822 051 10101	100Ω 2% 0,25W
3268	4822 115 10129	27Ω 10% 5W
3270	4822 051 10108	1Ω 5% 0,25W
3271	4822 053 10399	39Ω 5% 1W
3272	4822 051 51201	120Ω 1% 0,125W
3273▲	4822 051 10472	4k7 2% 0,25W
3275	4822 116 52206	120Ω 5% 0,5W
3300	4822 053 10753	75k 5% 1W
3304	4822 051 10473	47k 2% 0,25W
3305	4822 051 10113	11k 2% 0,25W
3306	4822 051 10823	82k 2% 0,25W
3308	4822 053 12151	150Ω 5% 3W
3309▲	4822 051 10103	10k 2% 0,25W
3310	4822 116 52184	18Ω 5% 0,5W
3311	4822 051 10471	470Ω 2% 0,25W
3312	4822 051 10101	100Ω 2% 0,25W
3313	4822 116 52184	18Ω 5% 0,5W
3314	4822 116 52175	100Ω 5% 0,5W
3317	4822 051 10682	6k8 2% 0,25W
3320	4822 051 10471	470Ω 2% 0,25W
3321	4822 051 10471	470Ω 2% 0,25W
3322	4822 051 10471	470Ω 2% 0,25W
3331	4822 116 52267	30k 5% 0,5W
3332	4822 116 52233	10k 5% 0,5W
3351▲	4822 052 11279	27Ω 5% 0,5W
3356	4822 051 10751	750Ω 2% 0,25W
3357	4822 050 21542	1k54 1% 0,6W
3358	4822 116 52183	16Ω 5% 0,5W
3359	4822 050 21602	1k6 1% 0,6W
3360	4822 051 10122	1k2 2% 0,25W
3362	4822 051 10151	150Ω 2% 0,25W
3364	4822 051 10471	470Ω 2% 0,25W
3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368▲	4822 053 10271	270Ω 5% 1W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3373	4822 051 10153	15k 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382▲	4822 051 10103	10k 2% 0,25W
3383▲	4822 051 10103	10k 2% 0,25W
3387	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52265	270k 5% 0,5W
3410	4822 100 11731	150k 30% lin
3411	4822 051 10204	200k 2% 0,25W
3412	4822 116 52284	47k 5% 0,5W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 52264	27k 5% 0,5W
3417▲	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419▲	4822 052 10279	27Ω 5% 0,33W
3421	4822 051 10272	2k7 2% 0,25W
3422	4822 101 21195	470k 30% lin
3424	4822 051 10201	200Ω 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3428	4822 051 10333	33k 2% 0,25W
3429	4822 116 52205	1k1 5% 0,5W
3430	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52205	1k1 5% 0,5W
3439	4822 051 10754	750k 2% 0,25W
3440	4822 051 10163	16k 2% 0,25W
3441	4822 116 52293	6k2 5% 0,5W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10223	22k 2% 0,25W
3444▲	4822 051 10103	10k 2% 0,25W
3448	4822 116 52233	10k 5% 0,5W
3450	4822 051 10562	5k6 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3453	4822 116 52211	150Ω 5% 0,5W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10154	150k 2% 0,25W

Spare parts list / Stükliste / Liste des pièces

Ω 5% 0,5W	3457	4822 051 10912	9k1 2% 0,25W
1% 0,125W	3458▲	4822 116 80676	1Ω5 5% 0,5W
1% 0,125W	3459▲	4822 116 80676	1Ω5 5% 0,5W
k 5% 0,5W			
5% 0,5W	3460▲	4822 053 11331	330Ω 5% 2W
% 0,25W	3460▲	4822 053 11271	270Ω 5% 2W
k 5% 0,5W	3461	4822 116 80176	1Ω 5% 0,5W
10%	3462	4822 116 80176	1Ω 5% 0,5W
5% 0,5W	3464▲	4822 053 10102	1k 5% 1W
	3465	4822 051 10681	680Ω 2% 0,25W
Ω 2% 0,25W	3467	4822 100 20166	10k 30% lin
Ω 2% 0,25W	3468	4822 053 12331	330Ω 5% 3W
10% 5W	3473	4822 051 10152	1k5 2% 0,25W
5% 0,25W	3479	4822 051 10683	68k 2% 0,25W
5% 1W			
Ω 1% 0,125W	3480	4822 116 52234	100k 5% 0,5W
2% 0,25W	3481	4822 051 10102	1k 2% 0,25W
Ω 5% 0,5W	3482	4822 051 10229	22Ω 2% 0,25W
5% 1W	3484	4822 051 10224	220k 2% 0,25W
2% 0,25W	3485	4822 051 10102	1k 2% 0,25W
	3500	4822 116 52224	470Ω 5% 0,5W
2% 0,25W	3501	4822 116 52274	36k 5% 0,5W
2% 0,25W	3502	4822 116 52306	9k1 5% 0,5W
Ω 5% 3W	3503	4822 116 52306	9k1 5% 0,5W
2% 0,25W	3504	4822 116 52176	10Ω 5% 0,5W
5% 0,5W			
Ω 2% 0,25W	3505	4822 116 52229	750Ω 5% 0,5W
Ω 2% 0,25W	3506	4822 053 11108	1Ω 5% 2W
5% 0,5W	3507	4822 116 52184	18Ω 5% 0,5W
Ω 5% 0,5W	3508▲	4822 116 60523	2k2
2% 0,25W	3508	4822 116 82773	1k8 10% 5W
	3509	4822 053 20104	100k 5% 0,25W
Ω 2% 0,25W	3511▲	4822 052 10128	1Ω2 5% 0,33W
Ω 2% 0,25W	3512	4822 051 10331	330Ω 2% 0,25W
Ω 2% 0,25W	3513	4822 100 11319	4k7 30% lin
5% 0,5W	3515▲	4822 052 10108	1Ω 5% 0,33W
5% 0,5W			
5% 0,5W	3516▲	4822 052 10108	1Ω 5% 0,33W
Ω 2% 0,25W	3517▲	4822 052 11108	1Ω 5% 0,5W
1% 0,6W	3520▲	4822 052 11102	1k 5% 0,5W
5% 0,5W	3521▲	4822 052 11102	1k 5% 0,5W
1% 0,6W	3522	4822 117 10285	6,8Ω 5% 3W
	3523	4822 116 52244	15k 5% 0,5W
2% 0,25W	3524	4822 116 52176	10Ω 5% 0,5W
Ω 2% 0,25W	3525	4822 116 52207	1k2 5% 0,5W
Ω 2% 0,25W	3527	4822 051 10102	1k 2% 0,25W
Ω 2% 0,25W	3528	4822 050 11002	1k 1% 0,4W
Ω 2% 0,25W			
Ω 5% 1W	3528	4822 116 52207	1k2 5% 0,5W
2% 0,25W	3529	4822 051 10204	200k 2% 0,25W
0% lin	3530	4822 051 10474	470k 2% 0,25W
Ω 2% 0,25W	3531	4822 116 52274	36k 5% 0,5W
2% 0,25W	3532▲	4822 050 23301	330Ω 1% 0,6W
	3533▲	4822 050 23301	330Ω 1% 0,6W
5% 0,5W	3534▲	4822 052 10128	1Ω2 5% 0,33W
2% 0,25W	3535▲	4822 052 10128	1Ω2 5% 0,33W
Ω 5% 0,5W	3536▲	4822 053 10331	330Ω 5% 1W
Ω 2% 0,25W	3538	4822 050 21303	13k 1% 0,6W
2% 0,25W			
2% 0,25W	3539▲	4822 052 10108	1Ω 5% 0,33W
2% 0,25W	3540	4822 116 52267	30k 5% 0,5W
2% 0,25W	3541▲	4822 116 52272	330k 5% 0,5W
2% 0,25W	3542	4822 051 10104	100k 2% 0,25W
2% 0,25W	3543	4822 051 20222	2k2 5% 0,1W
	3543	4822 051 10332	3k3 2% 0,25W
2% 0,25W	3544	4822 051 10393	39k 2% 0,25W
2% 0,25W	3545	4822 116 52208	130Ω 5% 0,5W
2% 0,25W	3546	4822 051 10104	100k 2% 0,25W
30% lin	3547	4822 051 10109	10Ω 2% 0,25W
Ω 2% 0,25W			
2% 0,25W	3548	4822 051 10392	3k9 2% 0,25W
5% 0,5W	3549	4822 051 10124	120k 2% 0,25W
30% lin	3550	4822 051 10132	1k3 2% 0,25W
2% 0,25W	3551	4822 051 10151	150Ω 2% 0,25W
5% 0,5W	3552	4822 116 52207	1k2 5% 0,5W
	3553	4822 116 52207	1k2 5% 0,5W
2% 0,25W	3555	4822 113 80592	150Ω 10% 5W
30% lin	3556	4822 053 11108	1Ω 5% 2W
5% 0,5W	3558	4822 051 10109	10Ω 2% 0,25W
5% 0,5W	3559	4822 051 10392	3k9 2% 0,25W
Ω 2% 0,25W			
5% 0,33W	3560	4822 113 80586	6Ω8 10% 5W
2% 0,25W	3561	4822 051 58201	820Ω 1% 0,125W
30% lin	3562	4822 051 52202	2k2 1% 0,125W
Ω 2% 0,25W	3563	4822 116 52175	100Ω 5% 0,5W
Ω 2% 0,25W	3564	4822 051 10569	56Ω 2% 0,25W
	3570	4822 051 10272	2k7 2% 0,25W
2% 0,25W	3573	4822 116 52244	15k 5% 0,5W
5% 0,5W	3601	4822 051 10104	100k 2% 0,25W
Ω 5% 0,5W	3602	4822 100 11213	22k 30% lin
5% 0,5W	3603	4822 051 10163	16k 2% 0,25W
2% 0,25W			
2% 0,25W	3603	4822 051 10123	12k 2% 0,25W
2% 0,5W	3604	4822 051 10514	510k 2% 0,25W
2% 0,25W	3605▲	4822 051 10103	10k 2% 0,25W
2% 0,25W	3606	4822 051 20183	18k 5% 0,1W
2% 0,25W	3607	4822 100 11213	22k 30%lin 0,1W
	3608▲	4822 051 10103	10k 2% 0,25W
5% 0,5W	3609	4822 051 10473	47k 2% 0,25W
2% 0,25W	3610▲	4822 051 10472	4k7 2% 0,25W
2% 0,25W	3611▲	4822 116 52256	2k2 5% 0,5W
5% 0,33W	3612	4822 116 52233	10k 5% 0,5W
5% 0,5W			
2% 0,25W	3613	4822 051 10202	2k 2% 0,25W
2% 0,25W	3614	4822 116 52249	1k8 5% 0,5W

	3615	4822 116 52224	470Ω 5% 0,5W
	3616	4822 051 10332	3k3 2% 0,25W
	3617	4822 051 20222	2k2 5% 0,1W
	3618	4822 051 10683	68k 2% 0,25W
	3619	4822 051 20222	2k2 5% 0,1W
	3620	4822 051 10682	6k8 2% 0,25W
	3621	4822 051 10114	110k 2% 0,25W
	3622	4822 116 80176	1Ω 5% 0,5W
	3623	4822 116 80176	1Ω 5% 0,5W
	3626	4822 130 40938	BC548
	3627	4822 051 10202	2k 2% 0,25W
	3628	4822 051 10473	47k 2% 0,25W
	3629	4822 051 10474	470k 2% 0,25W
	3630▲	4822 051 10103	10k 2% 0,25W
	3631	4822 116 52297	68k 5% 0,5W
	3632	4822 051 10134	130k 2% 0,25W
	3633	4822 051 10271	270Ω 2% 0,25W
	3634	4822 051 10473	47k 2% 0,25W
	3650	4822 051 20183	18k 5% 0,1W
	3651	4822 051 10102	1k 2% 0,25W
	3652	4822 051 10822	8k2 2% 0,25W
	3653	4822 051 10104	100k 2% 0,25W
	3653	4822 051 20183	18k 5% 0,1W
	3654	4822 051 20222	2k2 5% 0,1W
	3655	4822 051 20222	2k2 5% 0,1W
	3656▲	4822 051 10103	10k 2% 0,25W
	3800	4822 116 52289	5k6 5% 0,5W
	3801	4822 051 10184	180k 2% 0,25W
	3802	4822 051 10104	100k 2% 0,25W
	3803	4822 051 20222	2k2 5% 0,1W
	3804▲	4822 051 10103	10k 2% 0,25W
	3805▲	4822 111 41424	22Ω 5% 0,3W
	3806	4822 051 20222	2k2 5% 0,1W
	3807▲	4822 116 52256	2k2 5% 0,5W
	3809	4822 051 10104	100k 2% 0,25W
	3810	4822 116 52176	10Ω 5% 0,5W
	3811▲	4822 116 52215	220Ω 5% 0,5W
	4xxx	4822 051 10008	0Ω 5% 0,25W
	9459▲	4822 116 52215	220Ω 5% 0,5W
	9625	4822 053 20106	10M 5% 0,25W

	5230▲	4822 148 81192	SOPS transf.
	5237	4822 526 10494	Ferrite bead
	5241	4822 157 62412	27µH 10%
	5255▲	4822 148 81225	µSOPS transf.
	5260	4822 526 10494	Ferrite bead
	5308	4822 157 70001	180µH 10%
	5310	4822 157 63301	1µH 15%
	5381▲	4822 157 52265	100µH 10%
	5503▲	4822 157 63252	Line driver
	5505	4822 157 51588	0,82µH 20%
	5506	4822 157 51588	0,82µH 20%
	5507	4822 157 63506	0,09µH
	5510	4822 157 62886	33µH 10%
	5511	4822 157 52407	39µH 7,5%
	5520	4822 157 63846	linearity corr. 28"
	5520▲	4822 156 50091	linearity corr. 32"
	5521	4822 157 70871	Bridge coil 28"
	5521	4822 157 70869	Bridge coil 32"
	5524	4822 526 10494	Ferrite bead
	5525	4822 157 52392	27µH 10%
	5526▲	4822 157 63513	E/W coil
	5527	4822 157 70472	0,56µH 20%
	5534	4822 158 10551	27µH 7,5%
	5543	4822 157 62412	27µH 10%
	5555	4822 140 10476	L.O.T. 28"
	5555▲	4822 140 10432	L.O.T. 32"

	6000	4822 130 80446	LL4148
	6001	4822 130 80446	LL4148
	6008	4822 209 73095	P4KE30C-7000
	6010	4822 130 80446	LL4148
	6011	4822 130 80446	LL4148
	6012	4822 130 80446	LL4148
	6016	4822 130 80446	LL4148
	6017	4822 130 80446	LL4148
	6021	4822 130 80446	LL4148
	6201	4822 130 80446	LL4148
	6210	4822 130 33887	GP15J-16
	6211	4822 130 33887	GP15J-16
	6212	4822 130 33887	GP15J-16
	6213	4822 130 33887	GP15J-16
	6216	4822 130 42606	BYD33J
	6220	4822 130 33887	GP15J-16
	6221	4822 130 33887	GP15J-16
	6230	4822 130 33529	BY229F-200
	6232	4822 130 33529	BY229F-200
	6235	4822 130 81104	MA689
	6237▲	4822 130 41602	BYW95C/20
	6238▲	4822 130 41602	BYW95C/20
	6246	4822 130 83576	BZV55-B6V8
	6251	4822 130 81512	BZV55-C6V2
	6260	4822 130 80446	BAS32L
	6262	4822 130 83121	BYD73C
	6266	4822 130 34278	BZX79-F6V8
	6272▲	4822 130 34173	BZX55-B5V6
	6280▲	4822 130 30621	1N4148
	6302	4822 130 80446	LL4148
	6303	4822 130 80446	LL4148
	6304	4822 130 81637	PMLL4148L
	6305	4822 130 82334	BAS85
	6306	4822 130 34499	BZX79-C20
	6308	4822 130 42488	BYD33D
	6312	4822 130 42488	BYD33D
	6314	4822 130 80446	LL4148
	6315	4822 130 80446	LL4148
	6318	4822 130 83086	LL4150
	6319	5322 130 34898	BZD23-C5V6
	6331▲	4822 130 30621	1N4148
	6349	4822 130 80446	LL4148
	6350	4822 130 80446	LL4148
	6351▲	4822 130 30621	1N4148
	6352	4822 130 80446	LL4148
	6353	4822 130 80446	LL4148
	6355	4822 130 80446	LL4148
	6356	4822 130 82345	LLZ-C22
	6357	4822 130 80446	LL4148
	6370	4822 130 81512	LLZ-C6V2
	6371	4822 130 80446	LL4148
	6372	4822 130 80446	LL4148
	6373	4822 130 82583	LLZ-C9V1
	6375	4822 130 80446	LL4148
	6376	4822 130 80922	LLZ-C18
	6403	4822 130 80446	LL4148
	6404	4822 130 80446	LL4148
	6417	4822 130 81223	LLZ-C2V4
	6422	4822 130 80446	LL4148
	6440▲	4822 130 30621	1N4148
	6441	4822 130 80446	LL4148
	6451▲	4822 130 61219	BZX79-C10
	6452	4822 130 42488	BYD33D
	6480	4822 130 31554	BZX79-C4V3
	6506▲	5322 130 32184	BYV27-50
	6515	4822 130 42488	BYD33D
	6516	4822 130 42488	BYD33D
	6517	4822 130 42488	BYD33D
	6526▲	4822 130 33531	BY229F-600
	6527	4822 130 83185	BY359F-1500
	6529	4822 130 34329	BZX79-C43
	6534	4822 130 82512	BYV29F-400
	6536	4822 130 82758	BYV29F-300
	6542	4822 130 42488	BYD33D
	6546	4822 130 80446	LL4148
	6547▲	4822 130 30621	1N4148
	6551	4822 130 83004	BZX79-A3V9
	6570	4822 130 80922	LLZ-C18
	6611	4822 130 81027	LLZ-C11
	6633	4822 130 81512	LLZ-C6V2
	6650	4822 130 82583	LLZ-C9V1
	6650	4822 130 82583	LLZ-C9V1
	6651	4822 130 80446	LL4148
	6651	4822 130 80446	LL4148
	6801	4822 130 80446	LL4148
	6802	5322 130 34337	BAV99
	6803	4822 130 80446	LL4148
	6804	4822 130 80446	LL4148
	6811	4822 130 34281	BZX79-B15

	7000	4822 209 73311	TDA1521Q/N4
	7000	4822 130 63427	BD534FI
	7001	4822 209 73311	TDA1521Q/N4
	7002▲	4822 209 83163	LM833N
	7003	4822 130 61207	BC848
	7005	5322 130 42136	BC848C
	7006	5322 130 42136	BC848C
	7007	4822 130 61207	BC848
	7008	4822 130 61207	BC848
	7009▲	4822 209 83163	LM833N
	7010	5322 130 42012	BC858
	7011	4822 209 63913	TDA1521AQ/N4
	7012	4822 130 61207	BC848
	7013	4822 130 61207	BC848
	7201	5322 130 42756	BC857C
	7216	4822 130 63366	ON4802
	7242	4822 130 40948	BC548A
	7243	4822 130 40948	BC548A
	7250	4822 130 62509	BUX85F
	7251	4822 130 61207	BC848
	7268	4822 130 63426	BD533FI
	7270	4822 130 40823	BD135
	7273	4822 130 42513	BC858C
	7305	5322 130 42136	BC848C
	7311	4822 130 42513	BC858C
	7312	4822 130 40982	BD437
	7318	4822 130 42615	BC817-40
	7320▲	4822 130 82034	CNX83A
	7360	4822 130 42513	BC858C
	7369	5322 130 42755	BC847C
	7370	5322 130 42136	BC848C
	7371	4822 130 42513	BC858C
	7380	4822 130 42513	BC858C
	7381	5322 130 42136	BC848C
	7384	5322 130 42755	BC847C
	7400	4822 209 30402	TDA2579B/N2/S1
	7402	5322 130 42136	BC848C
	7417	4822 130 42513	BC858C
	7443	4822 130 61207	BC848
	7444	4822 130 61207	BC848
	7450	4822 209 73308	TDA3654Q/N3
	7451	5322 130 42012	BC858A
	7469	4822 130 44283	BC636
	7480	4822 130 42513	BC858C
	7481	5322 130 42136	BC848C
	7501	4822 130 63316	BSN304
	7506	4822 130 62843	2SC4288A
	7512▲	4822 130 41344	BC337-40
	7513	4822 130 41327	BC327-40
	7530	4822 130 60136	BC856
	7540	5322 130 42755	BC847C
	7541	5322 130 42755	BC847C
	7542	5322 130 42756	BC857C
	7543	4822 130 60136	BC856
	7550	4822 130 63427	BD534FI
	7551	4822 130 62846	ON4590
	7552	4822 130 62846	ON4590
	7601	4822 130 61207	BC848
	7602	5322 130 42012	BC858
	7603	5322 130 42012	BC858
	7608	4822 130 44503	BC547C
	7610	4822 130 62845	BDT60F
	7616	5322 130 42136	BC848C
	7618	5322 130 42136	BC848C
	7650	5322 130 42136	BC848C
	7650	5322 130 42136	BC848C
	7651	5322 130 42136	BC848C
	7651	5322 130 42136	BC848C
	7652	5322 130 42136	BC848C
	7652	5322 130 42136	BC848C
	7800	5322 209 10576	4053B
	7801	4822 130 61207	BC848
	7802	4822 130 61207	BC848

Large signal panel FLx.26/.27 [A] [B] [G]

	4822 266 30359	6P female
	4822 265 41328	10P female
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 264 40207	3P male
	4822 267 41142	3P
	4822 267 41146	6P
	4822 267 41018	2P red
▲	4822 265 30389	2P male
▲	4822 265 40596	2P male
	4822 265 20509	2P male grey
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 265 30953	6P male
	4822 265 41326	10P male
	4822 265 30984	5P female

Various

	4822 466 93029	Insulation plate
	5322 390 20011	Vet silic P4 20GR
	4822 492 70143	Spring 10X33mm
	4822 492 62076	Spring fix trans.
	4822 492 70788	Spring fix IC
	4822 492 70789	Spring fix trans.
▲	4822 276 12998	Mains switch
▲	4822 256 30496	Fuse holder
	4822 290 61196	Socket for ext. loudsp.
	4822 276 13094	Switch loudsp. ON/OFF
	4822 267 20417	Socket for squeeters
	4822 310 31993	SOPS repair kit
	4822 320 20162	EHT cable
	4822 320 20191	Focus cable
1010	4822 212 30195	NTSC panel
1200▲	4822 070 33151	Fuse 3,15A

	2001	4822 122 31784	4,7nF 10% 50V
	2002	4822 122 31784	4,7nF 10% 50V
	2003	4822 126 11175	22pF 5% 50V

Spare parts list / Stükliste / Liste des pièces

2004	4822 122 32142	270pF 2% 63V
2005	4822 122 32142	270pF 2% 63V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 31775	680pF 2% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF 20% 50V
2013	4822 122 32927	220nF 20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF 20% 100V
2020	4822 126 12816	10nF 20% 100V
2021	4822 126 12816	10nF 20% 100V
2022	4822 126 11966	100pF 10% 500V
2022	4822 126 12816	10nF 20% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2028	4822 122 32927	220nF 20% 50V
2029	4822 122 32927	220nF 20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034	4822 122 32862	10nF 80% 50V
2035	4822 122 31775	680pF 2% 63V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 051 10008	0Ω 5% 0,25W
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2041	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 32927	220nF 20% 50V
2049	4822 051 10008	0Ω 5% 0,25W
2049	4822 122 31965	220pF 2% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051▲	4822 124 40433	47µF 20% 25V
2052▲	4822 124 40433	47µF 20% 25V
2053▲	4822 124 40433	47µF 20% 25V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 31773	560pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2075	4822 122 31797	22nF 10% 63V
2076	4822 122 31797	22nF 10% 63V
2077	4822 122 31797	22nF 10% 63V
2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V
2210▲	4822 126 11141	2,2nF 10% 1kV
2211▲	4822 126 11141	2,2nF 10% 1kV
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2230	4822 122 32856	8,2nF 10% 63V
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2236	4822 124 80215	1000µF 20% 35V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2241	5322 124 41431	22µF 20% 35V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2256	5322 122 31647	1nF 10% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 126 12876	15pF 10% 100V
2261	4822 124 40255	100µF 20% 63V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80605	330µF 20% 50V
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	5322 124 41378	33µF 20% 35V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2401	4822 122 32542	47nF 10% 63V
2402	4822 124 41576	2,2µF 20% 50V
2403	5322 124 41431	22µF 20% 35V
2404▲	4822 124 40246	4,7µF 20% 63V
2405	4822 122 31759	18nF
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	4822 122 32153	1,8nF 10% 63V
2408	4822 126 11823	270pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412	4822 126 11966	100pF 10% 500V
2415	4822 122 32542	47nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2450▲	4822 122 32442	10nF 50V
2451	4822 122 31746	1nF 2% 63V
2452	4822 124 41716	220µF 20% 35V
2455	4822 122 31746	1nF 2% 63V
2455	4822 122 31771	390pF 2% 63V
2456	4822 124 41184	470µF 20% 50V
2456	4822 124 41747	680µF 20% 35V
2456	5322 124 41468	1000µF 20% 40V
2457	4822 124 42249	1µF 10% 50V
2457	4822 124 42251	1,5µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 32891	68nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 80214	22µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11157	470pF 10% 500V
2504	4822 122 20054	270pF 10% 2kV
2504▲	4822 126 12239	560pF 10% 2kV
2505	4822 122 20054	270pF 10% 2kV
2505▲	4822 126 11254	330pF 10% 2kV
2505▲	4822 126 12269	680pF 10% 2kV
2507	4822 121 42408	220nF 5% 63V
2509▲	4822 126 12273	1200pF 10% 2kV
2511	4822 121 43368	47µF 160V
2512	4822 124 41596	22µF 20% 50V
2513	4822 124 41596	22µF 20% 50V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2519	4822 124 80341	1µF 20% 160V
2520▲	4822 121 51527	390nF 5% 250V
2520▲	4822 121 51528	470nF 5% 250V
2521	4822 121 51563	560nF 5% 250V
2523	4822 121 70398	11nF 5% 2kV
2523	4822 121 70415	8,2nF 5% 1,6kV
2524	4822 121 43915	27nF 5% 630V
2524	4822 121 70005	15nF 5% 630V
2525▲	4822 121 43397	680nF 5% 250V
2528	4822 121 70397	12nF 5% 630V
2529	4822 124 22467	2,2µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 11502	470pF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 11501	1,5nF 10% 500V
2537	4822 124 40201	1000µF 20% 16V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2545	4822 122 31175	1nF 10% 500V
2546	4822 122 33496	100nF 10% 63V
2547	4822 122 33498	2,7nF 10% 63V
2552	4822 122 33496	100nF 10% 63V
2553	4822 122 33496	100nF 10% 63V
2554▲	4822 124 41525	100µF 20% 25V
2555	4822 122 32891	68nF 10% 63V
2556	4822 124 41584	100µF 20% 10V
2600▲	4822 124 40246	4,7µF 20% 63V
2601	4822 122 31797	22nF 10% 63V
2603	4822 122 32891	68nF 10% 63V
2603	4822 122 32927	220nF 20% 50V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31644	2,2nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2605	4822 122 33498	2,7nF 10% 63V
2606	4822 122 33496	100nF 10% 63V
2609	4822 121 43396	120nF 5% 63V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 41576	2,2µF 20% 50V
2613	4822 122 31784	4,7nF 10% 50V
2626	4822 122 32566	3,9nF 10% 63V

3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10153	15k 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3015▲	4822 052 10828	8Ω2 5% 0,33W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3019▲	4822 052 10828	8Ω2 5% 0,33W
3020▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10132	1k3 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3043	4822 051 10203	20k 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3060	4822 051 10203	20k 2% 0,25W
3061	4822 051 10201	200Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52296	6k8 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069▲	4822 051 10472	4k7 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 116 52257	22k 5% 0,5W
3074▲	4822 051 10103	10k 2% 0,25W
3201▲	4822 053 21475	4M7 5% 0,5W
3202▲	4822 053 21825	8M2 5% 0,5W
3203	4822 111 41573	470Ω 10% 0,5W
3204	4822 116 40253	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W
3210	4822 116 52239	120k 5% 0,5W
3211	4822 116 52239	120k 5% 0,5W
3212	4822 116 52234	100k 5% 0,5W
3213	4822 051 10823	82k 2% 0,25W
3216▲	4822 115 90309	56Ω 10% 5W
3230▲	4822 052 10108	1Ω 5% 0,33W
3234	4822 100 11348	1k 30% lin
3236	4822 051 10681	680Ω 2% 0,25W
3237	4822 051 10101	100Ω 2% 0,25W
3239	4822 116 52297	68k 5% 0,5W
3240	4822 116 52297	68k 5% 0,5W
3241	4822 113 80602	5,6Ω 10% 5W
3243▲	4822 053 10221	220Ω 5% 1W
3247	4822 051 10122	1k2 2% 0,25W
3248	4822 051 10562	5k6 2% 0,25W
3249	4822 116 52258	220k 5% 0,5W
3250	4822 116 52195	47Ω 5% 0,5W
3251	4822 051 10471	470Ω 2% 0,25W
3252	4822 116 52258	220k 5% 0,5W
3253	4822 116 82738	10k 10%
3254▲	4822 051 10472	4k7 2% 0,25W
3255	4822 116 52243	1k5 5% 0,5W
3256	4822 051 10471	470Ω 2% 0,25W
3257	4822 051 10152	1k5 2% 0,25W
3266	4822 051 10151	150Ω 2% 0,25W
3267	4822 051 10101	100Ω 2% 0,25W
3268	4822 115 10129	27Ω 10% 5W
3270	4822 051 10108	1Ω 5% 0,25W
3271	4822 053 10399	39Ω 5% 1W
3272	4822 051 51201	120Ω 1% 0,125W
3273▲	4822 051 10472	4k7 2% 0,25W
3275	4822 116 52206	120Ω 5% 0,5W
3300	4822 053 10753	75k 5% 1W
3304	4822 051 10473	47k 2% 0,25W
3305	4822 051 10113	11k 2% 0,25W
3306	4822 051 10823	82k 2% 0,25W
3308	4822 053 12151	150Ω 5% 3W
3309▲	4822 051 10103	10k 2% 0,25W
3310	4822 116 52184	18Ω 5% 0,5W
3311	4822 051 10471	470Ω 2% 0,25W
3312	4822 051 10101	100Ω 2% 0,25W
3313	4822 116 52184	18Ω 5% 0,5W
3314	4822 116 52175	100Ω 5% 0,5W
3317	4822 051 10682	6k8 2% 0,25W
3320	4822 051 10471	470Ω 2% 0,25W
3321	4822 051 10471	470Ω 2% 0,25W
3322	4822 051 10471	470Ω 2% 0,25W
3331	4822 116 52267	30k 5% 0,5W
3332	4822 116 52233	10k 5% 0,5W
3351▲	4822 052 11279	27Ω 5% 0,5W
3356	4822 051 10681	680Ω 2% 0,25W
3357	4822 050 21542	1k54 1% 0,6W
3358	4822 116 52183	16Ω 5% 0,5W
3359	4822 050 21602	1k6 1% 0,6W
3360	4822 051 10122	1k2 2% 0,25W
3362	4822 051 10151	150Ω 2% 0,25W
3364	4822 051 10471	470Ω 2% 0,25W
3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368▲	4822 053 10271	270Ω 5% 1W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382▲	4822 051 10103	10k 2% 0,25W
3383▲	4822 051 10103	10k 2% 0,25W
3385	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3404	4822 051 10332	3k3 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52292	560k 5% 0,5W
3410	4822 100 11213	22k 30% lin
3411	4822 051 10104	100k 2% 0,25W
3411	4822 051 10124	120k 2% 0,25W
3411	4822 051 10753	75k 2% 0,25W
3413	4822 051 10101	100Ω 2% 0,25W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 81223	1M2 5%
3417▲	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419▲	4822 052 10229	22Ω 5% 0,33W
3420	4822 050 23905	3M9 1% 0,6W
3420	4822 116 52305	820k 5% 0,5W
3421	4822 116 52263	2k7 5% 0,5W
3422	4822 116 81223	1M2 5%
3422	4822 116 81783	1M5 5% 0,5W
3422	4822 116 83029	1M3 5% 0,5W
3423	4822 116 52235	1M 5% 0,5W
3423	4822 116 52305	820k 5% 0,5W
3423	4822 117 10612	1M1 5%
3424	4822 051 10221	220Ω 2% 0,25W
3425	4822 051 10124	120k 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3427	4822 051 10474	470k 2% 0,25W
3428	4822 116 52271	33k 5% 0,5W
3429	4822 050 11002	1k 1% 0,4W
3430▲	4822 051 10103	10k 2% 0,25W
3431	4822 116 52271	33k 5% 0,5W
3437	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52175	100Ω 5% 0,5W
3439	4822 116 52247	16k 5% 0,5W
3440	4822 051 20222	2k2 5% 0,1W
3441	4822 051 10622	6k2 2% 0,25W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10112	1k1 2% 0,25W
3444▲	4822 051 10103	10k 2% 0,25W
3445	4822 051 10223	22k 2% 0,25W
3446	4822 051 10273	27k 2% 0,25W
3450	4822 051 10432	4k3 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10124	120k 2% 0,25W
3456	4822 051 10134	130k 2% 0,25W
3456	4822 051 51204	120k 1% 0,125W
3457	4822 051 10822	8k2 2% 0,25W
3457	4822 051 10912	9k1 2% 0,25W
3457	4822 051 58202	8k2 1% 0,125W
3458▲	4822 116 80676	1Ω5 5% 0,5W
3459▲	4822 116 8
3460▲	4822 053 1
3461	4822 116 8
3462	4822 116 8
3463	4822 116 8
3465	4822 051 1
3466	4822 116 5
3466	4822 116 5
3466	4822 116 5
3467	4822 100 2
3468	4822 053 1
3469	4822 050 1
3469	4822 116 5
3469	4822 116 5
3471	4822 051 1
3471	4822 051 2
3473	4822 116 5
3479	4822 051 1
3480	4822 116 5
3481	4822 051 1
3482	4822 051 1
3483	4822 051 1
3484	4822 051 1
3485	4822 051 1
3495▲	4822 053 1
3500	4822 116 5
3501	4822 051 1
3502	4822 116 5
3503	4822 116 5
3504	4822 053
3504	4822 053
3505	4822 116 5
3505	4822 116 5
3506	4822 053
3506	4822 053
3507	4822 116 5
3507	4822 116 5
3508	4822 116
3508	4822 116
3509	4822 053
3510	4822 113
3512	4822 051
3513	4822 100
3514	4822 116
3515▲	4822 052
3516▲	4822 052
3517▲	4822 052
3518	4822 116
3519	4822 116
3520▲	4822 052
3521▲	4822 052
3522▲	4822 052
3524	4822 116
3525	4822 116
3526	4822 053
3527	4822 051
3528	4822 050
3528	4822 116
3528	4822 116
3528	4822 116
3529	4822 051
3530	4822 051
3531	4822 116
3532▲	4822 050
3533▲	4822 050
3534▲	4822 052
3535▲	4822 052
3536	4822 116
3537	4822 116
3538	4822 050
3538	4822 050
3540	4822 116
3541	4822 116
3542	4822 051
3543	4822 051
3544	4822 051
3545	4822 116
3547	4822 051
3548	4822 051
3549	4822 051
3550	4822 051
3553▲	4822 05
3554	4822 05
3555	4822 05
3556	4822 05
3557	4822 05
3558	4822 10
3559	4822 05
3560▲	4822 05
3561	4822 05
3562	4822 05
3563	4822 05
3600▲	4822 05
3600	4822 05
3600	4822 05
3601	4822 05

% 0,25W	3459▲	4822 116 80676	1Ω5 5% 0,5W	
5% 3W	3460▲	4822 053 10271	270Ω 5% 1W	
	3461	4822 116 80176	1Ω 5% 0,5W	
% 0,25W	3462	4822 116 80176	1Ω 5% 0,5W	
% 0,5W	3463	4822 116 80176	1Ω 5% 0,5W	
2% 0,25W	3465	4822 051 10681	680Ω 2% 0,25W	
2% 0,25W	3466	4822 116 52243	1k5 5% 0,5W	
% 0,5W				
5% 0,5W	3466	4822 116 52279	4k3 5% 0,5W	
% 0,25W	3466	4822 116 52286	5k1 5% 0,5W	
2% 0,25W	3467	4822 100 20166	10k 30% lin	
2% 0,25W	3468	4822 053 12221	220Ω 5% 3W	
2% 0,25W	3469	4822 050 11002	1k 1% 0,4W	
	3469	4822 116 52279	4k3 5% 0,5W	
% 0,5W	3469	4822 116 52286	5k1 5% 0,5W	
% 0,5W	3471	4822 051 10182	1k8 2% 0,25W	
% 0,5W	3471	4822 051 20222	2k2 5% 0,1W	
2% 0,25W	3473	4822 116 52253	2k 5% 0,5W	
1% 0,6W				
% 0,5W	3479	4822 051 10683	68k 2% 0,25W	
% 0,6W	3480	4822 116 52234	100k 5% 0,5W	
% 0,25W	3481	4822 051 10102	1k 2% 0,25W	
2% 0,25W	3482	4822 051 10229	22Ω 2% 0,25W	
2% 0,25W	3483	4822 051 10563	56k 2% 0,25W	
	3484	4822 051 10223	22k 2% 0,25W	
2% 0,25W	3485	4822 051 10102	1k 2% 0,25W	
2% 0,25W	3495▲	4822 053 11271	270Ω 5% 2W	
5% 1W	3500	4822 116 52224	470Ω 5% 0,5W	
% 0,25W	3501	4822 051 10392	3k9 2% 0,25W	
% lin				
2% 0,25W	3502	4822 116 52299	7k5 5% 0,5W	
% 0,5W	3503	4822 116 52299	7k5 5% 0,5W	
% 0,25W	3504	4822 053 11108	1Ω 5% 2W	
5% 0,5W	3504	4822 053 11128	1Ω2 5% 2W	
2% 0,25W	3505	4822 116 52191	33Ω 5% 0,5W	
	3505	4822 116 52195	47Ω 5% 0,5W	
% 0,25W	3506	4822 053 11108	1Ω 5% 2W	
% 0,25W	3506	4822 053 11128	1Ω2 5% 2W	
% 0,25W	3507	4822 116 52191	33Ω 5% 0,5W	
% 0,25W	3507	4822 116 52195	47Ω 5% 0,5W	
% 0,25W				
% 0,25W	3508	4822 116 82773	1k8 10% 5W	
% 0,25W	3508	4822 116 83003	1k5 10% 5W	
% 0,25W	3509	4822 053 21154	150k 5% 0,5W	
% 0,25W	3510	4822 113 80592	150Ω 10% 5W	
% 0,25W	3512	4822 051 10331	330Ω 2% 0,25W	
	3513	4822 100 11319	4k7 30% lin	
0% lin	3514	4822 116 52189	30Ω 5% 0,5W	
2% 0,25W	3515▲	4822 052 10108	1Ω 5% 0,33W	
% 0,25W	3516▲	4822 052 10108	1Ω 5% 0,33W	
5% 0,5W	3517▲	4822 052 11108	1Ω 5% 0,5W	
0% lin				
2% 0,25W	3518	4822 116 52267	30k 5% 0,5W	
2% 0,25W	3519	4822 116 52267	30k 5% 0,5W	
% 0,25W	3520▲	4822 052 11471	470Ω 5% 0,5W	
2% 0,25W	3521▲	4822 052 11471	470Ω 5% 0,5W	
2% 0,25W	3522▲	4822 052 11102	1k 5% 0,5W	
	3524	4822 116 81753	4Ω7 5% 0,5W	
0% lin	3525	4822 116 52207	1k2 5% 0,5W	
5%	3526	4822 053 10688	6Ω8 5% 1W	
% 0,5W	3527	4822 051 10102	1k 2% 0,25W	
2% 0,25W	3528	4822 050 11002	1k 1% 0,4W	
5% 0,33W				
1% 0,6W	3528	4822 116 52207	1k2 5% 0,5W	
5% 0,5W	3528	4822 116 52229	750Ω 5% 0,5W	
% 0,5W	3528	4822 116 52243	1k5 5% 0,5W	
5%	3529	4822 051 10104	100k 2% 0,25W	
5% 0,5W	3530	4822 051 10474	470k 2% 0,25W	
	3531	4822 116 52191	33Ω 5% 0,5W	
5% 0,5W	3532▲	4822 050 23301	330Ω 1% 0,6W	
% 0,5W	3533▲	4822 050 23301	330Ω 1% 0,6W	
5% 0,5W	3534▲	4822 052 11278	2Ω7 5% 0,5W	
5%	3535▲	4822 052 11278	2Ω7 5% 0,5W	
2% 0,25W				
2% 0,25W	3536	4822 116 52221	360Ω 5% 0,5W	
2% 0,25W	3537	4822 116 52189	30Ω 5% 0,5W	
2% 0,25W	3538	4822 050 21203	12k 1% 0,6W	
% 0,5W	3538	4822 050 21303	13k 1% 0,6W	
5 0,4W	3540	4822 116 52267	30k 5% 0,5W	
	3541	4822 116 52285	470k 5% 0,5W	
% 0,25W	3542	4822 051 10104	100k 2% 0,25W	
% 0,5W	3543	4822 051 10152	1k5 2% 0,25W	
5% 0,5W	3544	4822 051 10393	39k 2% 0,25W	
5% 0,5W	3545	4822 116 52208	130Ω 5% 0,5W	
% 0,5W				
% 0,1W	3547	4822 051 10518	5Ω1 5% 0,25W	
% 0,25W	3548	4822 051 10392	3k9 2% 0,25W	
% 0,25W	3549	4822 051 10124	120k 2% 0,25W	
% 0,25W	3550	4822 051 10102	1k 2% 0,25W	
% 0,25W	3553▲	4822 053 11479	47Ω 5% 2W	
	3554	4822 051 10008	0Ω 5% 0,25W	
% 0,25W	3555	4822 051 10681	680Ω 2% 0,25W	
% 0,25W	3556	4822 051 10008	0Ω 5% 0,25W	
% 0,25W	3557	4822 051 10182	1k8 2% 0,25W	
% 0,25W	3558	4822 100 11348	1k 30% lin	
% 0,33W				
2% 0,25W	3559	4822 051 10182	1k8 2% 0,25W	
2% 0,25W	3560▲	4822 052 10108	1Ω 5% 0,33W	
2% 0,25W	3561	4822 051 10152	1k5 2% 0,25W	
1% 0,125W	3562	4822 051 51102	1k1 1% 0,125W	
% 0,25W	3563	4822 051 10122	1k2 2% 0,25W	
	3600▲	4822 051 10472	4k7 2% 0,25W	
% 0,25W	3600	4822 051 10682	6k8 2% 0,25W	
% 0,125W	3600	4822 051 10752	7k5 2% 0,25W	
% 0,5W	3601	4822 051 10104	100k 2% 0,25W	
	3601	4822 051 10154	150k 2% 0,25W	
	3602	4822 100 11213	22k 30% lin	
	3602	4822 100 20166	10k 30% lin	
	3603▲	4822 051 10103	10k 2% 0,25W	
	3603	4822 051 10123	12k 2% 0,25W	
	3603	4822 051 10153	15k 2% 0,25W	
	3603	4822 051 10203	20k 2% 0,25W	
	3603	4822 051 10622	6k2 2% 0,25W	
	3604	4822 051 10104	100k 2% 0,25W	
	3604	4822 051 10134	130k 2% 0,25W	
	3604	4822 051 10184	180k 2% 0,25W	
	3605▲	4822 051 10103	10k 2% 0,25W	
	3605	4822 051 10133	13k 2% 0,25W	
	3605	4822 051 10243	24k 2% 0,25W	
	3606	4822 051 10153	15k 2% 0,25W	
	3606	4822 051 10223	22k 2% 0,25W	
	3606	4822 051 10333	33k 2% 0,25W	
	3607	4822 100 11213	22k 30% lin	
	3608	4822 051 10102	1k 2% 0,25W	
	3609	4822 051 10473	47k 2% 0,25W	
	3610▲	4822 051 10472	4k7 2% 0,25W	
	3611	4822 051 20222	2k2 5% 0,1W	
	3614	4822 116 52243	1k5 5% 0,5W	
	3615	4822 116 52224	470Ω 5% 0,5W	
	3616	4822 051 10332	3k3 2% 0,25W	
	3617	4822 051 20222	2k2 5% 0,1W	
	3618	4822 051 10683	68k 2% 0,25W	
	3619	4822 051 20222	2k2 5% 0,1W	
	3620	4822 051 10622	6k2 2% 0,25W	
	3621	4822 051 10164	160k 2% 0,25W	
	3622	4822 116 80176	1Ω 5% 0,5W	
	3623	4822 116 80176	1Ω 5% 0,5W	
	3624	4822 116 52184	18Ω 5% 0,5W	
	3625	4822 116 52184	18Ω 5% 0,5W	
	3626	4822 116 52267	30k 5% 0,5W	
	3627▲	4822 051 10103	10k 2% 0,25W	
	3628	4822 116 52284	47k 5% 0,5W	
	3629	4822 051 10224	220k 2% 0,25W	
	3630	4822 051 10104	100k 2% 0,25W	
	3631	4822 051 10182	1k8 2% 0,25W	
	3632	4822 051 10101	100Ω 2% 0,25W	
	3632	4822 051 10153	15k 2% 0,25W	
	3633	4822 051 10204	200k 2% 0,25W	
	3633	4822 051 10244	240k 2% 0,25W	
	3633	4822 051 10683	68k 2% 0,25W	
	3634	4822 051 10473	47k 2% 0,25W	
	3650	4822 051 20183	18k 5% 0,1W	
	3651	4822 051 10102	1k 2% 0,25W	
	3652	4822 051 10822	8k2 2% 0,25W	
	3653	4822 051 10104	100k 2% 0,25W	
	3654	4822 051 20222	2k2 5% 0,1W	
	3655	4822 051 20222	2k2 5% 0,1W	
	3656▲	4822 051 10103	10k 2% 0,25W	
	4xxx	4822 051 10008	0Ω 5% 0,25W	
	9406▲	4822 116 52283	4K7 5% 0,5W	
	9406	4822 116 52296	6K8 5% 0,5W	
	9459▲	4822 116 52215	220E 5% 0,5W	

	5204▲	4822 157 10291	Mainsfilter CU28D5
	5230▲	4822 148 81192	SOPS transf.
	5231	4822 526 10494	Ferrite bead
	5233	4822 526 10494	Ferrite bead
	5235	4822 526 10494	Ferrite bead
	5237	4822 526 10494	Ferrite bead
	5241	4822 157 63696	18µH 10%
	5255▲	4822 148 81225	µSOPS transf.
	5260	4822 526 10494	Ferrite bead
	5262	4822 526 10494	Ferrite bead
	5308	4822 157 70001	180µH 10%
	5310	4822 157 63301	1µH 15%
	5381▲	4822 157 52265	100µH 10%
	5503▲	4822 157 63252	Line driver
	5504	4822 157 51588	0,82µH 20%
	5506	4822 157 51588	0,82µH 20%
	5510	4822 157 62412	27µH 10%
	5511	4822 157 52407	39µH 7,5%
	5514▲	4822 157 70006	DC-shift
	5520	4822 156 50107	Linearity corr.
	5520	4822 156 50112	Linearity corr. 29"
	5521	4822 157 63255	Bridge coil
	5521	4822 157 90255	Bridge coil 29"
	5524	4822 526 10494	Ferrite bead
	5525	4822 157 52392	27µH 10%
	5526	4822 157 63253	Choke
	5527	4822 157 71097	0,56µH 20%
	5534	4822 157 53066	15µH 10%
	5543	4822 157 62412	27µH 10%
	5548	4822 157 63506	0,09µH
	5555▲	4822 140 10443	L.O.T.
	5555▲	4822 140 10479	L.O.T. 29"

	6000	4822 130 80446	LL4148
	6001	4822 130 80446	LL4148
	6008	4822 209 73095	P4KE30C-7000
	6010	4822 130 80446	LL4148
	6011	4822 130 80446	LL4148
	6012	4822 130 80446	LL4148
	6016	4822 130 80446	LL4148
	6017	4822 130 80446	LL4148
	6021	4822 130 80446	LL4148
	6201	4822 130 80446	LL4148
	6210	4822 130 33887	GP15J-16
	6211	4822 130 33887	GP15J-16
	6212	4822 130 33887	GP15J-16
	6213	4822 130 33887	GP15J-16
	6216	4822 130 42606	BYD33J
	6220	4822 130 33887	GP15J-16
	6221	4822 130 33887	GP15J-16
	6230	4822 130 33529	BY229F-200
	6232	4822 130 33529	BY229F-200
	6235	4822 130 80982	BYW29F-100
	6237▲	4822 130 41602	BYW95C/20
	6238▲	4822 130 41602	BYW95C/20
	6247	4822 130 83086	LL4150
	6251	4822 130 80954	LLZ-C5V6
	6254	4822 130 80883	LLZ-C4V7
	6255	4822 130 80446	LL4148
	6260	4822 130 80446	BAS32L
	6262	4822 130 82353	BYD34G
	6266	4822 130 34278	BZX79-F6V8
	6272▲	4822 130 34173	BZX55-B5V6
	6280▲	4822 130 30621	1N4148
	6302	4822 130 80446	LL4148
	6303	4822 130 80446	LL4148
	6304	4822 130 81637	PMLL4148L
	6305	4822 130 82334	BAS85
	6306	4822 130 34499	BZX79-C20
	6308	4822 130 42488	BYD33D
	6312	4822 130 42488	BYD33D
	6314	4822 130 80446	LL4148
	6315	4822 130 80446	LL4148
	6318	4822 130 83086	LL4150
	6319	4822 130 32904	BZV85-C5V6
	6331▲	4822 130 30621	1N4148
	6349	4822 130 80446	LL4148
	6350	4822 130 80446	LL4148
	6351▲	4822 130 30621	1N4148
	6352	4822 130 80446	LL4148
	6353	4822 130 80446	LL4148
	6355	4822 130 80446	LL4148
	6356	4822 130 80886	LLZ-F22
	6357	4822 130 80446	LL4148
	6370	4822 130 81512	LLZ-C6V2
	6371	4822 130 80446	LL4148
	6372	4822 130 80446	LL4148
	6373	4822 130 82583	LLZ-C9V1
	6375	4822 130 80446	LL4148
	6376	4822 130 81143	LLZ-C20
	6403	4822 130 80446	LL4148
	6404	4822 130 80446	LL4148
	6405	4822 130 80446	LL4148
	6417	4822 130 81223	LLZ-C2V4
	6440	4822 130 80446	LL4148
	6441	4822 130 80446	LL4148
	6451	5322 130 34834	BZX79-C3V6
	6452	4822 130 42488	BYD33D
	6465	4822 130 80446	LL4148
	6467	4822 130 80446	LL4148
	6480	4822 130 31554	BZX79-C4V3
	6504	4822 130 42488	BYD33D
	6506	4822 130 42488	BYD33D
	6507	4822 130 83086	LL4150
	6515	4822 130 42488	BYD33D
	6516	4822 130 42488	BYD33D
	6517	4822 130 42488	BYD33D
	6519▲	4822 130 32896	BYD33M
	6520▲	4822 130 32896	BYD33M
	6526▲	4822 130 33531	BY229F-600
	6527	4822 130 83185	BY359F-1500
	6529	4822 130 34329	BZX79-C43
	6535	4822 130 82512	BYV29F-400
	6536	4822 130 80982	BYW29F-100
	6538	4822 130 80954	LLZ-C5V6
	6542	4822 130 42488	BYD33D
	6546	4822 130 80446	LL4148
	6547▲	4822 130 30621	1N4148
	6551	4822 130 80954	LLZ-C5V6
	6552	4822 130 80922	LLZ-C18
	6629	4822 130 80446	LL4148
	6650	4822 130 82583	LLZ-C9V1
	6651	4822 130 80446	LL4148

	7000	4822 130 63427	BD534FI
	7000	4822 209 73311	TDA1521Q/N4
	7001	4822 209 73311	TDA1521Q/N4

	7002▲	4822 209 83163	LM833N
	7003	4822 130 61207	BC848
	7005	5322 130 42136	BC848C
	7006	5322 130 42136	BC848C
	7007	4822 130 61207	BC848
	7008	4822 130 61207	BC848
	7009▲	4822 209 83163	LM833N
	7010	5322 130 42012	BC858
	7011	4822 209 63913	TDA1521AQ/N4
	7012	4822 130 61207	BC848
	7013	4822 130 61207	BC848
	7201	5322 130 42756	BC857C
	7216	4822 130 63239	ON4827
	7242	5322 130 44349	BC635
	7250	4822 130 62509	BUX85F
	7251	4822 130 61207	BC848
	7256	5322 130 42012	BC858
	7268	4822 130 63558	BD533
	7270	4822 130 40823	BD135
	7273	4822 130 42513	BC858C
	7305	5322 130 42136	BC848C
	7311	4822 130 42513	BC858C
	7312	4822 130 40982	BD437
	7318	4822 130 42615	BC817-40
	7320▲	4822 130 82034	CNX83A
	7360	5322 130 42756	BC857C
	7369	5322 130 42755	BC847C
	7370	5322 130 42755	BC847C
	7371	4822 130 42513	BC858C
	7380	4822 130 42513	BC858C
	7381	5322 130 42136	BC848C
	7384	5322 130 42755	BC847C
	7400	4822 209 30402	TDA2579B/N2/S1
	7402	5322 130 42136	BC848C
	7403	4822 130 42513	BC858C
	7407	4822 130 61207	BC848
	7417	4822 130 42513	BC858C
	7444	5322 130 42136	BC848C
	7445	5322 130 42136	BC848C
	7450	4822 209 73308	TDA3654Q/N3
	7451	5322 130 42012	BC858
	7469	4822 130 44104	BC328
	7480	4822 130 42513	BC858C
	7481	5322 130 42136	BC848C
	7501	4822 130 63316	BSN304
	7504	4822 130 62934	2xON4673
	7506	4822 130 62843	2SC4288A
	7506	4822 130 62934	2xON4673
	7512	4822 130 41109	BD135-16
	7513	4822 130 41194	BD136-16
	7530	4822 130 60136	BC856
	7540	5322 130 42755	BC847C
	7541	5322 130 42755	BC847C
	7542	5322 130 42756	BC857C
	7543	4822 130 60136	BC856
	7550	4822 130 63427	BD534FI
	7551	4822 209 70672	LM358N
	7552	5322 130 44349	BC635
	7601	4822 130 61207	BC848
	7602	5322 130 42012	BC858
	7603	5322 130 42012	BC858
	7608	4822 130 44503	BC547C
	7610	4822 130 63508	BD536FI
	7616	4822 130 61207	BC848
	7618	4822 130 61207	BC848
	7650	5322 130 42136	BC848C
	7651	5322 130 42136	BC848C
	7652	5322 130 42136	BC848C

Small signal panel [C] [D] [F] [H]

4822 255 40901	IC socket 40P
4822 267 41147	7P grey
4822 290 40295	7P male grey
4822 267 41095	5P male
4822 265 41326	10P male hor.
4822 264 40207	3P male
4822 267 51242	10P male vert.
4822 265 31009	3P pinstrip
4822 265 20512	2P green
4822 290 61116	9P pistrip
4822 265 40442	10P male
4822 267 40666	3P male vert.
4822 267 41143	3P male
4822 265 41335	11P
4822 267 41144	3P
4822 265 20509	2P grey
4822 265 30828	5P male vert.
4822 265 31112	5P male hor.
4822 267 41145	5P male
4822 265 31101	3P male hor.
4822 265 40252	7P male
4822 265 40253	8P male

Spare parts list / Stükliste / Liste de pièces

	4822 267 50637	10P female

Various

	4822 267 20427	Socket SCART+4xcinch
	4822 267 20457	Socket SCART+2x cinch
	4822 267 51058	Socket SCART
	4822 267 20409	Socket cinch+SVHS
	4822 267 41005	Socket 2xcinch+2xSVHS
	4822 404 31305	Bracket for black-stretch
	4822 212 30803	µP panel
	4822 900 10506	Software FL2.24/FL2.16/FL 2.26/FL4.17
1160	4822 210 10507	FQ816ME/B
1160	4822 210 10548	FQ916ME/BL
1160	4822 210 10549	FQ916DME/B
1160	4822 210 10556	FQ944/LIF
1160	4822 210 10557	FQ916DMF/IF
1160	4822 210 10558	FQ916MF/LIF
1160	4822 210 10565	FQ916/BL
1248	4822 242 80364	Filter 4,434MHz
1379	4822 242 70736	Crystal 7,159 090 MHz
1380	4822 242 70304	Crystal 8,867 238 MHz
1600	4822 212 30039	SECAM DK panel
1602	4822 242 80276	Crystal 10MHz

⊣⊢

2111	4822 126 11544	22nF 63V
2114	4822 124 22606	68µF 20% 16V
2118	4822 122 31797	22nF 10% 63V
2119	4822 122 31797	22nF 10% 63V
2120	4822 126 11544	22nF 63V
2121	5322 122 31647	1nF 10% 63V
2122▲	4822 122 32442	10nF 50V
2123	4822 126 11804	330nF
2124	4822 126 11544	22nF 63V
2130	4822 122 31797	22nF 10% 63V
2132	4822 122 31797	22nF 10% 63V
2137▲	4822 122 32442	10nF 50V
2138	4822 124 40193	68µF 20% 16V
2160	4822 124 40849	330µF 20% 16V
2161	4822 122 33496	100nF 10% 63V
2162	4822 124 41829	1000µF 20% 6,3V
2163	4822 122 33496	100nF 10% 63V
2164	4822 122 33496	100nF 10% 63V
2165	4822 122 31947	100nF 20% 63V
2166	4822 124 40195	150µF 20% 16V
2168	4822 122 32927	220nF 20% 50V
2169▲	4822 122 32442	10nF 50V
2170	4822 124 40195	150µF 20% 16V
2171	4822 122 32862	10nF 80% 50V
2172▲	4822 124 40433	47µF 20% 25V
2180	4822 122 31947	100nF 20% 63V
2181	4822 126 11544	22nF 63V
2188	4822 126 11544	22nF 63V
2189	4822 126 11544	22nF 63V
2190	4822 121 41856	22nF 5% 250V
2191	4822 126 11544	22nF 63V
2193	4822 122 32153	1,8nF 10% 63V
2194	4822 122 32153	1,8nF 10% 63V
2198	4822 121 41856	22nF 5% 250V
2216	4822 122 32927	220nF 20% 50V
2219	4822 122 32927	220nF 20% 50V
2221	4822 122 31775	680pF 2% 63V
2221	4822 122 32482	22pF 2% 63V
2234	4822 122 32927	220nF 20% 50V
2240	4822 122 32927	220nF 20% 50V
2242▲	4822 124 40196	220µF 20% 16V
2243	4822 121 42408	220nF 5% 63V
2245	4822 122 32927	220nF 20% 50V
2249	4822 122 32862	10nF 80% 50V
2250	4822 051 10102	1k 2% 0,25W
2252	4822 121 42408	220nF 5% 63V
2253	4822 126 11492	220nF 10% 50V
2254	4822 122 32927	220nF 20% 50V
2255	4822 124 41643	100µF 20% 16V
2257	4822 122 31947	100nF 20% 63V
2258	4822 122 31765	100pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2261	4822 122 31947	100nF 20% 63V
2268	4822 122 31947	100nF 20% 63V
2269	4822 122 32482	22pF 2% 63V
2270	4822 126 11544	22nF 63V
2274	4822 122 32862	10nF 80% 50V
2301	5322 122 31647	1nF 10% 63V
2305	4822 126 10324	33pF 2% 63V
2306	4822 122 31772	47pF 2% 63V
2309	4822 122 31772	47pF 2% 63V
2312	4822 126 11544	22nF 63V
2313	4822 122 31774	56pF 2% 63V
2314	4822 122 32482	22pF 2% 63V
2318	4822 121 42408	220nF 5% 63V
2324	4822 126 11544	22nF 63V
2338	4822 122 31772	47pF 2% 63V
2342	4822 122 31972	39pF 2% 63V
2343	4822 122 31727	470pF 2% 63V
2344	4822 122 31775	680pF 2% 63V
2345	4822 122 31807	1200pF 2% 63V
2347	5322 122 31647	1nF 10% 63V
2353	4822 122 32862	10nF 80% 50V
2360	4822 124 40272	33µF 20% 16V
2361	4822 124 40849	330µF 20% 16V
2365	4822 122 31352	180pF 2% 100V
2366	4822 126 11544	22nF 63V
2367	4822 122 32862	10nF 80% 50V
2368	4822 122 32862	10nF 80% 50V
2369	4822 122 31825	27pF 2% 63V
2371	4822 122 31825	27pF 2% 63V
2372	4822 122 31965	220pF 2% 63V
2373	4822 122 31965	220pF 2% 63V
2374	4822 126 11544	22nF 63V
2375	4822 126 11544	22nF 63V
2376	4822 126 11544	22nF 63V
2377	5322 121 42661	330nF 5% 63V
2378	4822 122 31947	100nF 20% 63V
2379	4822 125 50207	2p-33p trim.
2380	4822 125 50207	2p-33p trim.
2381	5322 121 42661	330nF 5% 63V
2382	5322 122 31647	1nF 10% 63V
2383▲	4822 122 32442	10nF 50V
2384	5322 122 31647	1nF 10% 63V
2385▲	4822 122 32442	10nF 50V
2387	4822 124 40248	10µF 20% 63V
2388	5322 122 33446	3,3nF 10% 63V
2390	4822 126 11544	22nF 63V
2391	4822 126 11544	22nF 63V
2392	4822 126 11544	22nF 63V
2395	4822 126 11544	22nF 63V
2396	4822 122 32927	220nF 20% 50V
2397	4822 126 11544	22nF 63V
2398	4822 124 40248	10µF 20% 63V
2399▲	4822 124 40433	47µF 20% 25V
2400	4822 126 11544	22nF 63V
2433	4822 126 11544	22nF 63V
2434	5322 122 33446	3,3nF 10% 63V
2435	5322 122 33446	3,3nF 10% 63V
2436	4822 122 31961	68pF 2% 63V
2438	4822 126 11544	22nF 63V
2440	4822 126 11544	22nF 63V
2442	4822 126 11544	22nF 63V
2445	4822 126 11804	330nF
2446	4822 126 11804	330nF
2447	4822 126 11804	330nF
2451	5322 121 42661	330nF 5% 63V
2452	4822 124 22466	1µF 20% 50V
2453	4822 122 31774	56pF 2% 63V
2454	4822 126 10324	33pF 2% 63V
2455	4822 126 10324	33pF 2% 63V
2456	4822 126 10324	33pF 2% 63V
2476▲	4822 124 40246	4,7µF 20% 63V
2478	4822 122 31784	4,7nF 10% 50V
2479	4822 122 32183	56nF 10% 50V
2480	4822 124 40272	33µF 20% 16V
2600	4822 122 31947	100nF 20% 63V
2602	4822 122 31947	100nF 20% 63V
2604	4822 122 31947	100nF 20% 63V
2606	4822 122 31947	100nF 20% 63V
2608	4822 122 32927	220nF 20% 50V
2620	4822 122 32927	220nF 20% 50V
2622	4822 122 32927	220nF 20% 50V
2624	5322 122 31842	330pF 2% 63V
2626	4822 122 32927	220nF 20% 50V
2627	5322 124 41431	22µF 20% 35V
2628	5322 122 31842	330pF 2% 63V
2630	4822 122 32927	220nF 20% 50V
2632	5322 122 31842	330pF 2% 63V
2634	4822 121 42408	220nF 5% 63V
2636	5322 122 31842	330pF 2% 63V
2638	4822 121 42408	220nF 5% 63V
2642	4822 122 32927	220nF 20% 50V
2646	4822 122 32927	220nF 20% 50V
2658	4822 122 31961	68pF 2% 63V
2659	4822 122 31961	68pF 2% 63V
2660	5322 122 31647	1nF 10% 63V
2662	5322 122 31647	1nF 10% 63V
2664	4822 122 32153	1,8nF 10% 63V
2666	4822 122 32153	1,8nF 10% 63V
2680	4822 122 31947	100nF 20% 63V
2681	4822 122 32542	47nF 10% 63V
2682	4822 124 40195	150µF 20% 16V
2684	4822 121 51252	470nF 5% 63V
2686	4822 121 51252	470nF 5% 63V
2688	4822 122 31782	15nF 10% 50V
2690	4822 122 31782	15nF 10% 50V
2692	4822 122 31981	33nF 5% 50V
2694	4822 122 31916	5,6nF 10% 63V
2696	4822 122 31981	33nF 5% 50V
2697	4822 122 32765	820pF 2% 63V
2698	4822 122 31916	5,6nF 10% 63V
2699	4822 122 32765	820pF 2% 63V
2700	4822 124 40242	1µF 20% 63V
2702	4822 124 40242	1µF 20% 63V
2704	4822 122 31644	2,2nF 10% 63V
2706	5322 124 41431	22µF 20% 35V
2707	4822 122 31784	4,7nF 10% 50V
2714	4822 126 11544	22nF 63V
2720	5322 124 41431	22µF 20% 35V
2721	4822 122 31784	4,7nF 10% 50V
2726	4822 122 31644	2,2nF 10% 63V
2727	4822 124 42362	33µF 20% 16V
2728	4822 124 42362	33µF 20% 16V
2734	4822 126 11544	22nF 63V

⊏□

3101	4822 116 52175	100Ω 5% 0,5W
3104	4822 116 52175	100Ω 5% 0,5W
3112	4822 050 11002	1k 1% 0,4W
3113	4822 116 52175	100Ω 5% 0,5W
3114	4822 116 52175	100Ω 5% 0,5W
3115	4822 116 52175	100Ω 5% 0,5W
3116	4822 116 52175	100Ω 5% 0,5W
3117	4822 051 20222	2k2 5% 0,1W
3119	4822 051 20222	2k2 5% 0,1W
3120	4822 051 20222	2k2 5% 0,1W
3121	4822 051 10123	12k 2% 0,25W
3122	4822 051 10123	12k 2% 0,25W
3123	4822 051 10123	12k 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10101	100Ω 2% 0,25W
3126	4822 051 10101	100Ω 2% 0,25W
3130	4822 051 10101	100Ω 2% 0,25W
3130▲	4822 051 10103	10k 2% 0,25W
3131	4822 116 52175	100Ω 5% 0,5W
3132	4822 116 52175	100Ω 5% 0,5W
3133	4822 051 10151	150Ω 2% 0,25W
3134	4822 116 52175	100Ω 5% 0,5W
3135	4822 051 10101	100Ω 2% 0,25W
3136	4822 051 10101	100Ω 2% 0,25W
3137	4822 116 52175	100Ω 5% 0,5W
3138	4822 116 52175	100Ω 5% 0,5W
3139	4822 116 52175	100Ω 5% 0,5W
3140	4822 050 11002	1k 1% 0,4W
3141	4822 050 11002	1k 1% 0,4W
3142	4822 050 11002	1k 1% 0,4W
3143	4822 050 11002	1k 1% 0,4W
3144	4822 050 11002	1k 1% 0,4W
3145	4822 050 11002	1k 1% 0,4W
3146	4822 050 11002	1k 1% 0,4W
3151	4822 051 10562	5k6 2% 0,25W
3153▲	4822 051 10103	10k 2% 0,25W
3154	4822 051 10152	1k5 2% 0,25W
3155	4822 051 10104	100k 2% 0,25W
3156	4822 051 10562	5k6 2% 0,25W
3157	4822 050 11002	1k 1% 0,4W
3158	4822 050 11002	1k 1% 0,4W
3159▲	4822 051 10103	10k 2% 0,25W
3160▲	4822 052 10109	10Ω 5% 0,33W
3160▲	4822 052 10758	7Ω5 5% 0,33W
3161▲	4822 051 10103	10k 2% 0,25W
3162▲	4822 052 10159	15Ω 5% 0,33W
3162▲	4822 052 10758	7Ω5 5% 0,33W
3163	4822 051 10223	22k 2% 0,25W
3164	4822 051 10101	100Ω 2% 0,25W
3164	4822 051 10108	1Ω 5% 0,25W
3165	4822 051 10101	100Ω 2% 0,25W
3165	4822 051 10108	1Ω 5% 0,25W
3166▲	4822 052 10228	2Ω2 5% 0,33W
3167	4822 051 10122	1k2 2% 0,25W
3168▲	4822 051 10242	2k4 2% 0,25W
3169	4822 050 11002	1k 1% 0,4W
3170▲	4822 116 82772	3Ω9 5% 0.3W
3171	4822 052 11511	510Ω 5% 0,5W
3172▲	4822 052 10159	15Ω 5% 0,33W
3172▲	4822 111 41424	22Ω 5% 0,3W
3175	4822 051 10153	15k 2% 0,25W
3176▲	4822 051 10103	10k 2% 0,25W
3177▲	4822 051 10103	10k 2% 0,25W
3178	4822 051 10223	22k 2% 0,25W
3180	4822 116 52224	470Ω 5% 0,5W
3181	4822 051 10822	8k2 2% 0,25W
3182	4822 116 52214	200Ω 5% 0,5W
3183	4822 116 52233	10k 5% 0,5W
3184	4822 051 51201	120Ω 1% 0,125W
3185	4822 051 10471	470Ω 2% 0,25W
3186▲	4822 116 52256	2k2 5% 0,5W
3187	4822 051 10759	75Ω 2% 0,25W
3189	4822 051 10223	22k 2% 0,25W
3190	4822 051 10823	82k 2% 0,25W
3191	4822 051 10823	82k 2% 0,25W
3192	4822 051 10153	15k 2% 0,25W
3193	4822 051 10331	330Ω 2% 0,25W
3194	4822 051 10331	330Ω 2% 0,25W
3200▲	4822 051 10472	4k7 2% 0,25W
3201▲	4822 051 10472	4k7 2% 0,25W
3202▲	4822 051 10472	4k7 2% 0,25W
3203	4822 116 52191	33Ω 5% 0,5W
3204	4822 116 52175	100Ω 5% 0,5W
3205	4822 051 10759	75Ω 2% 0,25W
3206	4822 051 10759	75Ω 2% 0,25W
3207	4822 051 10759	75Ω 2% 0,25W
3208	4822 051 10101	100Ω 2% 0,25W
3209	4822 051 10101	100Ω 2% 0,25W
3210	4822 051 10101	100Ω 2% 0,25W
3211▲	4822 116 52217	270Ω 5% 0,5W
3211	4822 116 52224	470Ω 5% 0,5W
3212	4822 116 52191	33Ω 5% 0,5W
3213	4822 051 10102	1k 2% 0,25W
3215	4822 051 10689	68Ω 2% 0,25W
3216▲	4822 052 10828	8Ω2 5% 0,33W
3217	4822 116 52224	470Ω 5% 0,5W
3218	4822 051 10471	470Ω 2% 0,25W
3219	4822 051 10008	0Ω 5% 0,25W
3219	4822 051 10271	270Ω 2% 0,25W
3220	4822 051 10471	470Ω 2% 0,25W
3220	4822 051 10561	560Ω 2% 0,25W
3222▲	4822 116 52217	270Ω 5% 0,5W
3224	4822 051 10759	75Ω 2% 0,25W
3225	4822 051 10471	470Ω 2% 0,25W
3232	4822 051 10102	1k 2% 0,25W
3233	4822 051 10102	1k 2% 0,25W
3234	4822 051 10759	75Ω 2% 0,25W
3235	4822 051 10759	75Ω 2% 0,25W
3237▲	4822 116 52217	270Ω 5% 0,5W
3238	4822 116 52222	390Ω 5% 0,5W
3239	4822 051 10271	270Ω 2% 0,25W
3240	4822 051 10759	75Ω 2% 0,25W
3242▲	4822 116 52219	330Ω 5% 0,5W
3243	4822 051 10152	1k5 2% 0,25W
3244	4822 051 10102	1k 2% 0,25W
3245	4822 051 10474	470k 2% 0,25W
3246	4822 051 10331	330Ω 2% 0,25W
3247	4822 051 10102	1k 2% 0,25W
3248	4822 051 10681	680Ω 2% 0,25W
3249	4822 051 10102	1k 2% 0,25W
3253	4822 051 10331	330Ω 2% 0,25W
3254▲	4822 052 10828	8Ω2 5% 0,33W
3255	4822 051 10821	820Ω 2% 0,25W
3259▲	4822 051 10103	10k 2% 0,25W
3260▲	4822 052 10828	8Ω2 5% 0,33W
3261	4822 051 10471	470Ω 2% 0,25W
3262▲	4822 051 10103	10k 2% 0,25W
3263	4822 051 10689	68Ω 2% 0,25W
3264	4822 051 10471	470Ω 2% 0,25W
3265▲	4822 051 10103	10k 2% 0,25W
3266▲	4822 051 10103	10k 2% 0,25W
3267▲	4822 051 10103	10k 2% 0,25W
3268	4822 051 10101	100Ω 2% 0,25W
3269	4822 051 10561	560Ω 2% 0,25W
3270▲	4822 051 10472	4k7 2% 0,25W
3271	4822 051 10471	470Ω 2% 0,25W
3272	4822 116 52228	680Ω 5% 0,5W
3273	4822 051 10471	470Ω 2% 0,25W
3274▲	4822 051 10103	10k 2% 0,25W
3275	4822 051 10689	68Ω 2% 0,25W
3276	4822 051 10471	470Ω 2% 0,25W
3277	4822 051 10271	270Ω 2% 0,25W
3279	4822 051 10689	68Ω 2% 0,25W
3281	4822 116 52201	75Ω 5% 0,5W
3285	4822 051 10123	12k 2% 0,25W
3286	4822 051 10123	12k 2% 0,25W
3287	4822 051 10123	12k 2% 0,25W
3288	4822 051 10123	12k 2% 0,25W
3300▲	4822 051 10103	10k 2% 0,25W
3301	4822 051 10332	3k3 2% 0,25W
3302	4822 051 10331	330Ω 2% 0,25W
3303	4822 051 10361	360Ω 2% 0,25W
3304	4822 051 10101	100Ω 2% 0,25W
3305	4822 051 10104	100k 2% 0,25W
3306	4822 051 10361	360Ω 2% 0,25W
3307	4822 051 10331	330Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10101	100Ω 2% 0,25W
3310▲	4822 116 52283	4k7 5% 0,5W
3316	4822 051 10112	1k1 2% 0,25W
3318▲	4822 051 10103	10k 2% 0,25W
3319	4822 116 52233	10k 5% 0,5W
3320▲	4822 116 52283	4k7 5% 0,5W
3321	4822 051 10511	510Ω 2% 0,25W
3325	4822 051 10682	6k8 2% 0,25W
3326▲	4822 051 10103	10k 2% 0,25W
3326	4822 051 10123	12k 2% 0,25W
3326	4822 051 10332	3k3 2% 0,25W
3326	4822 122 31947	100nF 20% 63V

Spare parts list / Stükliste / Liste des pièces

3327	4822 051 10122	1k2 2% 0,25W	
3336▲	4822 051 10472	4k7 2% 0,25W	
3338	4822 051 10391	390Ω 2% 0,25W	
3339	4822 051 10153	15k 2% 0,25W	
3342	4822 051 20222	2k2 5% 0,1W	
3344	4822 051 10273	27k 2% 0,25W	
3345	4822 051 10102	1k 2% 0,25W	
3346	4822 051 10102	1k 2% 0,25W	
3348▲	4822 051 10472	4k7 2% 0,25W	
3350	4822 051 51201	120Ω 1% 0,125W	
3351▲	4822 051 10472	4k7 2% 0,25W	
3353	4822 051 10332	3k3 2% 0,25W	
3360▲	4822 052 10278	2Ω7 5% 0,33W	
3361	4822 051 10102	1k 2% 0,25W	
3365	4822 051 10331	330Ω 2% 0,25W	
3365	4822 051 10332	3k3 2% 0,25W	
3369	4822 051 10331	330Ω 2% 0,25W	
3370	4822 100 11391	330Ω 30% lin	
3371	4822 051 10431	430Ω 2% 0,25W	
3372	4822 051 10331	330Ω 2% 0,25W	
3375	4822 116 80176	1Ω 5% 0,5W	
3377	4822 051 10682	6k8 2% 0,25W	
3380	4822 050 11002	1k 1% 0,4W	
3382	4822 051 20222	2k2 5% 0,1W	
3383	4822 051 10333	33k 2% 0,25W	
3387	4822 050 11002	1k 1% 0,4W	
3389	4822 051 10182	1k8 2% 0,25W	
3391	4822 051 20222	2k2 5% 0,1W	
3392	4822 051 10101	100Ω 2% 0,25W	
3393	4822 051 10101	100Ω 2% 0,25W	
3394	4822 051 10101	100Ω 2% 0,25W	
3395	4822 051 10471	470Ω 2% 0,25W	
3396	4822 051 20222	2k2 5% 0,1W	
3397	4822 052 10249	24Ω 5% 0,33W	
3397	4822 116 81192	12Ω 5% 0,3W	
3398	4822 116 52175	100Ω 5% 0,5W	
3399	4822 116 52175	100Ω 5% 0,5W	
3401▲	4822 052 10339	33Ω 5% 0,33W	
3425	4822 116 52224	470Ω 5% 0,5W	
3426	4822 116 52224	470Ω 5% 0,5W	
3439	4822 051 10221	220Ω 2% 0,25W	
3441	4822 051 10221	220Ω 2% 0,25W	
3443	4822 051 10221	220Ω 2% 0,25W	
3450	4822 051 20222	2k2 5% 0,1W	
3451▲	4822 051 10103	10k 2% 0,25W	
3451	4822 051 10432	4k3 2% 0,25W	
3453	4822 051 10511	510Ω 2% 0,25W	
3454	4822 051 10101	100Ω 2% 0,25W	
3455	4822 051 10101	100Ω 2% 0,25W	
3456	4822 051 10101	100Ω 2% 0,25W	
3465	4822 051 10102	1k 2% 0,25W	
3466	4822 051 10479	47Ω 2% 0,25W	
3471	4822 116 52233	10k 5% 0,5W	
3472	4822 051 10682	6k8 2% 0,25W	
3473	4822 051 10362	3k6 2% 0,25W	
3474	4822 051 10101	100Ω 2% 0,25W	
3475	4822 051 10124	120k 2% 0,25W	
3476	4822 051 10154	150k 2% 0,25W	
3477	4822 116 52286	5k1 5% 0,5W	
3477	4822 116 52297	68k 5% 0,5W	
3478	4822 116 52224	470Ω 5% 0,5W	
3479	4822 051 10008	0Ω 5% 0,25W	
3479	4822 051 10223	22k 2% 0,25W	
3480▲	4822 052 10278	2Ω7 5% 0,33W	
3481▲	4822 052 10278	2Ω7 5% 0,33W	
3482	4822 052 10431	430Ω 5% 0,33W	
3483	4822 116 52175	100Ω 5% 0,5W	
3484	4822 051 10102	1k 2% 0,25W	
3600	4822 051 10301	300Ω 2% 0,25W	
3600	4822 051 10362	3k6 2% 0,25W	
3602	4822 100 11212	2k2 30% lin	
3603	4822 051 10108	1Ω 5% 0,25W	
3603	4822 051 10332	3k3 2% 0,25W	
3604	4822 051 10182	1k8 2% 0,25W	
3604	4822 051 10272	2k7 2% 0,25W	
3605▲	4822 051 10472	4k7 2% 0,25W	
3606▲	4822 052 10279	27Ω 5% 0,33W	
3608	4822 051 10101	100Ω 2% 0,25W	
3610	4822 051 10101	100Ω 2% 0,25W	
3612	4822 051 10102	1k 2% 0,25W	
3620	4822 051 10184	180k 2% 0,25W	
3622	4822 051 10184	180k 2% 0,25W	
3624	4822 051 10102	1k 2% 0,25W	
3626	4822 051 10184	180k 2% 0,25W	
3628	4822 051 10102	1k 2% 0,25W	
3630	4822 051 10184	180k 2% 0,25W	
3632	4822 051 10102	1k 2% 0,25W	
3634	4822 051 10184	180k 2% 0,25W	
3636	4822 051 10102	1k 2% 0,25W	
3638	4822 051 10184	180k 2% 0,25W	
3642	4822 051 10184	180k 2% 0,25W	
3646	4822 051 10184	180k 2% 0,25W	
3650	4822 051 10392	3k9 2% 0,25W	
3651	4822 051 10123	12k 2% 0,25W	
3652	4822 051 10392	3k9 2% 0,25W	
3653	4822 051 10123	12k 2% 0,25W	
3654	4822 116 52244	15k 5% 0,5W	
3660	4822 051 10331	330Ω 2% 0,25W	
3662	4822 051 10151	150Ω 2% 0,25W	
3664	4822 051 10331	330Ω 2% 0,25W	
3665▲	4822 116 81193	15Ω 5% 0,3W	
3666	4822 051 10151	150Ω 2% 0,25W	
3668	4822 051 10331	330Ω 2% 0,25W	
3672	4822 051 10331	330Ω 2% 0,25W	
3680▲	4822 052 10279	27Ω 5% 0,33W	
3682	4822 051 10568	5Ω6 5% 0,25W	
3684	4822 116 52175	100Ω 5% 0,5W	
3686	4822 116 52175	100Ω 5% 0,5W	
3700	4822 116 52263	2k7 5% 0,5W	
3702	4822 051 10223	22k 2% 0,25W	
3704	4822 051 10102	1k 2% 0,25W	
3706▲	4822 116 81203	10Ω 5% 0,3W	
3708	4822 051 10101	100Ω 2% 0,25W	
3710	4822 051 20183	18k 5% 0,1W	
3712	4822 116 52203	91Ω 5% 0,5W	
3713	4822 116 52203	91Ω 5% 0,5W	
3714	4822 051 10828	8Ω2 5% 0,25W	
3720▲	4822 116 81203	10Ω 5% 0,3W	
3722	4822 116 52263	2k7 5% 0,5W	
3724	4822 051 10223	22k 2% 0,25W	
3726	4822 051 10102	1k 2% 0,25W	
3728	4822 051 10101	100Ω 2% 0,25W	
3730	4822 051 20183	18k 5% 0,1W	
3732	4822 116 52203	91Ω 5% 0,5W	
3733	4822 116 52203	91Ω 5% 0,5W	
3734	4822 051 10828	8Ω2 5% 0,25W	
3750	4822 051 10272	2k7 2% 0,25W	
3751▲	4822 051 10472	4k7 2% 0,25W	
3997	4822 051 10008	0Ω 5% 0,25W	
3997	4822 122 31947	100nF 20% 63V	
4xxx	4822 051 10008	0Ω 5% 0,25W	
9104	4822 116 52191	33E 5% 0,5W	

5115	4822 152 20677	10µH 10%	
5270	4822 157 52983	22µH 10%	
5280	4822 157 63065	0,68µH 20%	
5303	4822 157 53302	1µH 20%	
5304	4822 157 53302	1µH 20%	
5305	4822 157 62823	26µH 6%	
5330	4822 157 62823	26µH 6%	
5331	4822 152 20678	33µH 10%	
5332	4822 157 62823	26µH 6%	
5345	4822 157 62822	4,5µH 6%	
5346	4822 157 62823	26µH 6%	
5370	4822 157 62824	7,5µH 6%	
5454	4822 157 63065	0,68µH 20%	
5455	4822 157 63065	0,68µH 20%	
5456	4822 157 63065	0,68µH 20%	
5460	4822 157 63065	0,68µH 20%	

6112	4822 130 82334	BAS85	
6117	4822 130 80906	LLZ-F7V5	
6120	4822 130 80446	LL4148	
6121	4822 130 80446	LL4148	
6135	4822 130 80905	LLZ-F5V1	
6136	4822 130 83086	LL4150	
6137	4822 130 83086	LL4150	
6163	4822 130 81226	LLZ-F33	
6165	4822 130 80446	LL4148	
6166	4822 130 80446	LL4148	
6168	4822 130 80446	LL4148	
6170	4822 130 80446	LL4148	
6172	4822 130 80906	LLZ-C7V5	
6173	4822 130 80446	LL4148	
6178	4822 130 81222	LLZ-C15	
6179	4822 130 81222	LLZ-C15	
6205	4822 130 80446	LL4148	
6206	4822 130 80446	LL4148	
6207	4822 130 80446	LL4148	
6256	4822 130 80446	LL4148	
6257	4822 130 80446	LL4148	
6280	4822 130 80446	LL4148	
6280	4822 130 82334	BAS85	
6281	4822 130 80446	LL4148	
6281	4822 130 82334	BAS85	
6331	4822 130 80882	LLZ-C3V9	
6342	4822 130 80888	BA682	
6343	4822 130 80888	BA682	
6345	4822 130 30841	1N4150	
6370	4822 130 83406	LLZ-F3V6	
6386	4822 130 80446	LL4148	
6387	4822 130 80954	LLZ-C5V6	
6450	4822 130 81512	LLZ-C6V2	
6465	4822 130 80446	LL4148	
6471▲	4822 130 30621	1N4148	
6478	4822 130 82345	LLZ-C22	
6478	4822 130 82346	LLZ-C27	
6479	4822 130 80877	BAV103	
6480	4822 130 82882	LLZ-F8V2	
6481	4822 130 80881	LLZ-C33	
6610▲	4822 130 30621	1N4148	
6611▲	4822 130 30621	1N4148	
6660	4822 130 80446	LL4148	
6661	4822 130 81223	LLZ-C2V4	
6662	4822 130 80446	LL4148	
6663	4822 130 81223	LLZ-C2V4	
6664	4822 130 80446	LL4148	
6665	4822 130 80446	LL4148	

7110	4822 130 42513	BC858C	
7119▲	5322 130 41982	BC848B	
7120▲	5322 130 41982	BC848B	
7121	4822 130 42513	BC858C	
7137	4822 209 32283	ST24C08CB1	
7150	5322 130 42136	BC848C	
7175	5322 209 10883	PCF8574P	
7176	4822 130 42513	BC858C	
7177	4822 130 42513	BC858C	
7178▲	5322 130 41982	BC848B	
7182	5322 130 44743	BSR12	
7183▲	5322 130 41982	BC848B	
7186	4822 209 73852	PMBT2369	
7188	4822 130 60511	BC847B	
7193	4822 209 61115	LF353N	
7216	4822 130 42615	BC817-40	
7219	4822 209 63292	TEA6414	
7243	5322 130 41983	BC858B	
7244▲	5322 130 41982	BC848B	
7258	5322 209 10421	HEF4094BP	
7260	4822 130 42615	BC817-40	
7261	5322 130 42136	BC848C	
7265▲	5322 130 41982	BC848B	
7268	4822 130 42615	BC817-40	
7270▲	5322 130 41982	BC848B	
7273	4822 130 42615	BC817-40	
7305	5322 130 41983	BC858B	
7311▲	5322 130 41982	BC848B	
7314	5322 130 42136	BC848C	
7324	4822 209 63901	TDA4568/V2	
7330	5322 130 42136	BC848C	
7331	5322 130 42136	BC848C	
7332	5322 130 42136	BC848C	
7333	5322 130 42136	BC848C	
7335	4822 130 42513	BC858C	
7336	5322 130 42136	BC848C	
7338▲	5322 130 41982	BC848B	
7340	4822 130 60887	BF840	
7350▲	5322 130 41982	BC848B	
7360	4822 130 42615	BC817-40	
7365	4822 209 30837	TDA4650/V4/S1	
7366	4822 209 31714	TDA4661/V2	
7390	4822 130 42513	BC858C	
7395	4822 209 30394	TDA8443B/C1	
7430	4822 209 31592	TDA4680/V6	
7450	5322 130 42755	BC847C	
7451	5322 130 42755	BC847C	
7471	5322 130 42136	BC848C	
7480	4822 130 63528	BD533P	
7600	4822 209 63967	TDA8417/V3	
7620	4822 209 10263	4052B	
7622	4822 209 10263	4052B	
7630	4822 209 61115	LF353N	
7635	4822 209 61115	LF353N	
7660▲	5322 130 41982	BC848B	
7661▲	5322 130 41982	BC848B	
7662▲	5322 130 41982	BC848B	
7680	4822 209 63734	TDA8425/V7	
7704▲	4822 209 83163	LM833N	
7706▲	5322 130 41982	BC848B	
7708	5322 130 41983	BC858B	
7730▲	5322 130 41982	BC848B	
7732	5322 130 41983	BC858B	

Mains switch panel [A]

▲	4822 265 40596	2P male
▲	4822 265 30389	2P male
	4822 267 51348	2P horizontal

Various

1001	4822 212 30763	Mains switch panel FL2
1001	4822 212 31409	Mains switch panel FL4
	4822 276 13422	Mains switch FL2
	4822 276 13498	Mains switch FL4

3201▲	4822 053 21475	4M7 5% 0,5W

Mains filter panel [A]

▲	4822 265 30389	2P male

Various

1002	4822 212 30783	Mains filter panel FL2
1002	4822 212 31408	Mains filter panel FL4
▲	4822 256 30496	Fuse holder
1200▲	4822 070 33151	Fuse 3,15A

2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V

3203	4822 111 41573	470Ω
3204	4822 116 40253	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W

5202▲	4822 157 10291	Transf.CU28D5

Control panel [H]

	4822 265 31097	4P
	4822 265 41334	10P

Various

1004	4822 212 31264	Control panel FL2
1004	4822 212 31406	Keyboard panel FL4
	4822 276 13396	Tack switch

3148	4822 051 10473	47k 2% 0,25W
3149	4822 051 10473	47k 2% 0,25W
3150	4822 051 10473	47k 2% 0,25W
3161	4822 116 52224	470Ω 5% 0,5W
3161	4822 051 10471	470Ω 2% 0,25W
3162	4822 116 52224	470Ω 5% 0,5W
3162	4822 051 10471	470Ω 2% 0,25W
3163	4822 116 52224	470Ω 5% 0,5W
3163	4822 051 10471	470Ω 2% 0,25W
3164	4822 116 52224	470Ω 5% 0,5W
3164	4822 051 10471	470Ω 2% 0,25W
3165	4822 116 52224	470Ω 5% 0,5W
3165	4822 051 10471	470Ω 2% 0,25W
3166	4822 051 10471	470Ω 2% 0,25W
3167	4822 051 10471	470Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

6131	4822 130 83407	LSS260-DO
6132	4822 130 83407	LSS260-DO
6133	4822 130 83407	LSS260-DO
6134	4822 130 83407	LSS260-DO
6135	4822 130 83407	LSS260-DO
6136	4822 130 83407	LSS260-DO
6137	4822 130 83407	LSS260-DO

7131	5322 130 42012	BC858
7132	5322 130 42012	BC858
7133	5322 130 42012	BC858
7134	5322 130 42012	BC858
7135	5322 130 42012	BC858
7136	5322 130 42012	BC858
7137	5322 130 42012	BC858

Led panel [H]

	4822 265 31096	3P
	4822 265 31097	4P

Various

1003	4822 212 30765	Led panel FL2
1003	4822 212 31407	Led panel FL4
	4822 256 92079	Led holder FL2

	4822 255 41325	Led holder FL4
1100	4822 212 23281	IR receiver FL2
1100	4822 212 31399	IR receiver FL4

2100	4822 124 40684	150µF 20% 6,3V
2131	4822 124 22606	68µF 20% 16V

3100	4822 051 10102	1k 2% 0,25W
3128	4822 051 10471	470Ω 2% 0,25W
3188	4822 051 10101	100Ω 2% 0,25W
3189	4822 051 10101	100Ω 2% 0,25W
3198	4822 051 10181	180Ω 2% 0,25W
3199	4822 051 10181	180Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

5100	4822 157 53906	47µH

6128	4822 130 80313	TLHG4400
6129	4822 130 83414	TLHR4405

7128	5322 130 42012	BC858
7128	5322 130 41983	BC858B
7129	5322 130 42012	BC858
7129	5322 130 41983	BC858B
7130	5322 130 42136	BC848C

Connector panel [C]

4822 267 40666	3P
4822 265 30985	3P black
4822 265 41335	11P

Various

1005	4822 212 31265	Connector panel FL2
1005	4822 212 31405	Connector panel FL4
	4822 267 20454	Socket headph.+cinch+SV HS FL2
	4822 267 20462	Socket headph.+cinch+SV HS FL4

2241	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 2% 63V
2640	4822 121 70438	330pF 5% 100V
2644	5322 122 31842	330pF 2% 63V
2644	4822 121 70438	330pF 5% 100V
2716	4822 122 32597	6,8nF 10% 63V
2736	4822 122 32597	6,8nF 10% 63V

3241	4822 051 10759	75Ω 2% 0,25W
3251	4822 051 10759	75Ω 2% 0,25W
3252	4822 051 10759	75Ω 2% 0,25W
3640	4822 051 10102	1k 2% 0,25W
3641	4822 051 10223	22k 2% 0,25W
3644	4822 051 10102	1k 2% 0,25W
3645	4822 051 10223	22k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

North/South panel [B']

4822 264 40207	3P male
4822 265 20509	2P grey

Various

1060	4822 212 31004	North/South panel

2450	4822 121 51049	15nF 1% 63V
2452	4822 121 41857	10nF 5% 250V
2453	5322 121 42386	100nF 5% 63V

3452	4822 116 52175	100Ω 5% 0,5W
3453	4822 116 52195	47Ω 5% 0,5W
3454	4822 116 52283	4k7 5% 0,5W
3455	4822 116 52283	4k7 5% 0,5W
3456	4822 116 52264	27k 5% 0,5W
3457	4822 116 52264	27k 5% 0,5W
3459	4822 053 11108	1Ω 5% 2W
3460	4822 116 52217	270Ω 5% 0,5W
3461	5322 100 11542	4k7 30% lin
3462	4822 116 52207	1k2 5% 0,5W

5450	4822 157 62336	100µH 10%
5452	4822 157 71033	N/S correction coil

6452	4822 130 30621	1N4148
6453	5322 130 34834	BZX79-C3V6
6454	4822 130 34499	BZX79-C20
6455	4822 130 30621	1N4148

7450	4822 130 63441	J108
7451	4822 130 63441	J108

Scavem amplifier panel [Z]

4822 265 20509	2P grey
4822 265 40818	8P male
4822 264 40207	3P male
4822 267 41143	3P male
4822 267 40666	3P male blue

Various

1041	4822 212 31327	Scaven panel FL2.24 28"
1041	4822 212 31258	Scavem panel FL2.24 32"
1041	4822 212 31259	Scavem panel FL2.X6

2604	4822 124 22427	47µF 20% 40V
2605	4822 122 33496	100nF 10% 63V
2606	4822 124 22427	47µF 20% 40V
2607	4822 122 33496	100nF 10% 63V
2611	4822 122 33496	100nF 10% 63V
2612	4822 122 33496	100nF 10% 63V
2620▲	4822 122 32442	10nF 50V
2622▲	4822 122 32442	10nF 50V
2623	4822 122 33496	100nF 10% 63V
2624▲	4822 122 32442	10nF 50V
2625	4822 124 40255	100µF 20% 63V
2634▲	4822 122 32442	10nF 50V
2636	4822 122 33496	100nF 10% 63V
2637	4822 122 33496	100nF 10% 63V
2638	4822 122 33496	100nF 10% 63V
2639	4822 122 33496	100nF 10% 63V
2642▲	4822 122 32442	10nF 50V
2646	4822 122 33496	100nF 10% 63V
2647	4822 124 40255	100µF 20% 63V
2661	4822 124 41596	22µF 20% 50V
2671	4822 122 31727	470pF 2% 63V
2671	4822 122 31775	680pF 2% 63V
2671	4822 122 31727	470pF 2% 63V
2672	4822 122 31727	470pF 2% 63V
2672	4822 122 31775	680pF 2% 63V
2672	4822 122 31727	470pF 2% 63V

3401	4822 051 10104	100k 2% 0,25W
3402	4822 051 10104	100k 2% 0,25W
3411	4822 051 10104	100k 2% 0,25W
3412	4822 051 10104	100k 2% 0,25W
3413	4822 050 11002	1k 1% 0,4W
3421	4822 051 10473	47k 2% 0,25W
3422▲	4822 051 10103	10k 2% 0,25W
3423	4822 051 10104	100k 2% 0,25W
3424	4822 051 10104	100k 2% 0,25W
3425	4822 051 10473	47k 2% 0,25W
3426▲	4822 053 11821	820Ω 5% 2W
3430	4822 051 10473	47k 2% 0,25W
3431	4822 051 10473	47k 2% 0,25W
3432▲	4822 051 10103	10k 2% 0,25W
3433	4822 051 10104	100k 2% 0,25W
3434	4822 051 10104	100k 2% 0,25W
3435	4822 051 10473	47k 2% 0,25W
3606	4822 051 10478	4Ω7 5% 0,25W
3608	4822 051 10478	4Ω7 5% 0,25W
3609▲	4822 052 10478	4Ω7 5% 0,33W
3610▲	4822 052 10478	4Ω7 5% 0,33W
3612	4822 051 10478	4Ω7 5% 0,25W
3613	4822 051 10478	4Ω7 5% 0,25W
3614	4822 051 10478	4Ω7 5% 0,25W
3615▲	4822 050 24708	4Ω7 1% 0,6W
3630▲	4822 053 10681	680Ω 5% 1W
3632	4822 116 52224	470Ω 5% 0,5W
3633	4822 051 10152	1k5 2% 0,25W
3634	4822 051 10132	1k3 2% 0,25W
3635	4822 051 10339	33Ω 2% 0,25W
3637	4822 116 52224	470Ω 5% 0,5W
3638▲	4822 053 10681	680Ω 5% 1W
3640	4822 051 10473	47k 2% 0,25W
3641	4822 051 10152	1k5 2% 0,25W
3642	4822 051 10132	1k3 2% 0,25W
3643	4822 051 10339	33Ω 2% 0,25W
3645▲	4822 052 10479	47Ω 5% 0,33W
3647▲	4822 052 10479	47Ω 5% 0,33W
3648	4822 051 10681	680Ω 2% 0,25W
3649	4822 051 10243	24k 2% 0,25W
3650	4822 051 10122	1k2 2% 0,25W
3652	4822 051 10331	330Ω 2% 0,25W
3653	4822 051 10471	470Ω 2% 0,25W
3654	4822 051 10331	330Ω 2% 0,25W
3655	4822 051 10471	470Ω 2% 0,25W
3656	4822 051 10331	330Ω 2% 0,25W
3657	4822 051 10471	470Ω 2% 0,25W
3658	4822 051 10331	330Ω 2% 0,25W
3659	4822 051 10471	470Ω 2% 0,25W
3661	4822 051 10104	100k 2% 0,25W
3670	4822 051 10822	8k2 2% 0,25W
3671	4822 051 10822	8k2 2% 0,25W
3672	4822 051 10102	1k 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W
3998	4822 051 10569	56Ω 2% 0,25W

5612	4822 157 63507	0,18µH
5614	4822 157 63507	0,18µH

6426	4822 130 80906	LLZ-C7V5
6427	4822 130 80906	LLZ-C7V5
6610	4822 130 80884	LLZ-C5V1
6616	4822 130 80884	LLZ-C5V1
6625	4822 130 80446	LL4148
6630	4822 130 80446	LL4148
6638	4822 130 80446	LL4148
6647	4822 130 80446	LL4148
6661	4822 130 80446	LL4148
6662	4822 130 80446	LL4148

7401	5322 130 42756	BC857C
7411	5322 130 42756	BC857C
7421	4822 130 42705	BC847
7423	5322 130 42756	BC857C
7425	5322 130 42755	BC847C
7430	4822 130 42705	BC847
7431	4822 130 42705	BC847
7433	5322 130 42756	BC857C
7435	5322 130 42755	BC847C
7607	4822 130 42705	BC847
7608	4822 130 61207	BC848
7610	4822 130 41746	BD825
7611	4822 130 42589	BF370
7612	4822 130 41746	BD825
7613	4822 130 41774	BD826
7614	4822 130 41746	BD825
7615	4822 130 41774	BD826
7616	4822 130 41746	BD825
7617	4822 130 42589	BF370
7618	4822 130 42705	BC847
7619	4822 130 61233	BC857
7620	4822 130 42705	BC847
7621	4822 130 61233	BC857

Scavem filter panel [Y]

4822 265 41372	8P
4822 265 20512	2P green
4822 265 20509	2P grey
4822 265 31085	5P

Various

1042	4822 212 31262	Scavem filter FL2.24 32"
1042	4822 212 31263	Scavem filter FL2.X6
1042	4822 212 31326	Scavem filter FL2.24 28"

2501▲	4822 122 32442	10nF 50V
2502▲	4822 122 32442	10nF 50V
2503	4822 122 33496	100nF 10% 63V
2504	4822 122 33496	100nF 10% 63V
2505	5322 122 31647	1nF 10% 63V
2507	4822 124 40248	10µF 20% 63V
2508	4822 122 33496	100nF 10% 63V
2510	5322 122 31647	1nF 10% 63V
2512▲	4822 122 32442	10nF 50V
2513	4822 122 33496	100nF 10% 63V
2516	4822 122 31771	390pF 2% 63V
2517	4822 122 32082	4,7pF 5% 50V
2518	4822 122 32082	4,7pF 5% 50V
2526	4822 122 31825	27pF 2% 63V
2527	4822 122 31772	47pF 2% 63V
2528	4822 122 32504	15pF 2% 63V
2529	4822 122 33496	100nF 10% 63V
2531	4822 122 31825	27pF 2% 63V
2532	5322 122 31647	1nF 10% 63V
2538	4822 122 31965	220pF 2% 63V
2541	4822 122 31825	27pF 2% 63V
2542	5322 122 31647	1nF 10% 63V
2548	4822 122 31965	220pF 2% 63V
2550▲	4822 122 32442	10nF 50V
2560	4822 122 31797	22nF 10% 63V
2570	4822 122 31825	27pF 2% 63V

3400	4822 051 10473	47k 2% 0,25W
3410	4822 051 10473	47k 2% 0,25W
3420	4822 051 10473	47k 2% 0,25W
3500	4822 051 10821	820Ω 2% 0,25W
3500	4822 051 10102	1k 2% 0,25W
3501	4822 051 10109	10Ω 2% 0,25W
3502	4822 051 10221	220Ω 2% 0,25W
3507▲	4822 052 10478	4Ω7 5% 0,33W
3508	4822 051 10331	330Ω 2% 0,25W
3509	4822 051 10331	330Ω 2% 0,25W
3510	4822 051 10471	470Ω 2% 0,25W
3511	4822 051 10108	1Ω 5% 0,25W
3512	4822 051 10101	100Ω 2% 0,25W
3513▲	4822 051 10103	10k 2% 0,25W
3514▲	4822 051 10472	4k7 2% 0,25W
3515	4822 051 10822	8k2 2% 0,25W
3516	4822 051 10101	100Ω 2% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3520	4822 051 10101	100Ω 2% 0,25W
3521	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10471	470Ω 2% 0,25W
3523	4822 051 10471	470Ω 2% 0,25W
3524	4822 051 10241	240Ω 2% 0,25W
3525	4822 051 10182	1k8 2% 0,25W
3526	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 051 10471	470Ω 2% 0,25W
3529▲	4822 051 10472	4k7 2% 0,25W
3530	4822 051 10511	510Ω 2% 0,25W
3531▲	4822 051 10103	10k 2% 0,25W
3532	4822 051 10562	5k6 2% 0,25W
3532	4822 051 10752	7k5 2% 0,25W
3533	4822 051 10471	470Ω 2% 0,25W
3534	4822 051 10332	3k3 2% 0,25W
3535	4822 051 10511	510Ω 2% 0,25W
3536	4822 051 10751	750Ω 2% 0,25W
3537	4822 051 51201	120Ω 1% 0,125W
3538	4822 051 10279	27Ω 2% 0,25W
3540	4822 051 10511	510Ω 2% 0,25W
3541▲	4822 051 10103	10k 2% 0,25W
3542	4822 051 10562	5k6 2% 0,25W
3542	4822 051 10752	7k5 2% 0,25W
3544	4822 051 10332	3k3 2% 0,25W
3545	4822 051 10511	510Ω 2% 0,25W
3546	4822 051 10751	750Ω 2% 0,25W
3547	4822 051 51201	120Ω 1% 0,125W
3548	4822 051 10279	27Ω 2% 0,25W
3551	4822 051 10241	240Ω 2% 0,25W
3560	4822 051 10101	100Ω 2% 0,25W
3561	4822 051 10101	100Ω 2% 0,25W
3570	4822 051 10759	75Ω 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W

5526	4822	
5527	4822	
5570	4822	

6530	5322	
6540	5322	
6550	5322	
6559	4822	

7400	5322	
7410	5322	
7420	5322	
7500	5322	
7504	4822	
7505	4822	
7506	4822	
7507	4822	
7508	4822	
7509	4822	
7531	4822	
7541	4822	
7550	5322	
7560	4822	

DAF pa

▲	4822
	4822
	4822

Various

1043	4822	

2860▲	4822	
2861▲	4822	

3301	4822	
3302	4822	

5860	4822	

Panoram

4822	
4822	
4822	
4822	
4822	

Various

1028	4822	
1028	4822	

2101	4822	
2102	4822	
2105	4822	
2106	4822	
2110	4822	
2110	4822	
2140	4822	
2141	4822	

3100	4822	
3101	4822	
3102▲	4822	
3105	4822	
3106	4822	
3107	4822	
3108	4822	
3109	4822	
3110▲	4822	
3111▲	4822	

Spare parts list / Stükliste / Liste des pièces

5526	4822 157 53066	15µH 10%
5527	4822 157 60123	6,8µH 10%
5570	4822 157 60123	6,8µH 10%

6530	5322 130 34337	BAV99
6540	5322 130 34337	BAV99
6550	5322 130 34337	BAV99
6559	4822 130 80884	LLZ-C5V1

7400	5322 130 42755	BC847C
7410	5322 130 42755	BC847C
7420	5322 130 42755	BC847C
7500	5322 130 42012	BC858
7504	4822 209 30404	NE592/N8
7505	4822 130 61207	BC848
7506	4822 130 61207	BC848
7507	4822 130 61207	BC848
7508	4822 209 73852	PMBT2369
7509	4822 209 73852	PMBT2369
7531	4822 130 61207	BC848
7541	4822 130 61207	BC848
7550	5322 130 60646	BSR57
7560	4822 209 63896	PCF8574AP

DAF panel [B]

▲	4822 265 40596	2P male
	4822 267 41018	2P red
	4822 265 20509	2P grey

Various

1043	4822 212 31261	DAF panel

2860▲	4822 126 12267	470pF 10% 2kV
2861▲	4822 126 12239	560pF 10% 2kV

3301	4822 116 21221	1M A 385V VDR
3302	4822 116 21221	1M A 385V VDR

5860	4822 148 81242	Transf. DAF

Panorama panel [B]

	4822 265 20509	2P grey
	4822 267 41018	2P red
	4822 267 41144	3P grey
	4822 267 41142	3P
	4822 267 41143	3P

Various

1028	4822 212 31324	Panoramic view 32"
1028	4822 212 31325	Panoramic view 28"

2101	4822 121 51563	560nF 5% 250V
2102	4822 121 51563	560nF 5% 250V
2105	4822 124 80341	1µF 20% 160V
2106	4822 124 80341	1µF 20% 160V
2110	4822 121 51563	560nF 5% 250V
2110	4822 121 70281	510nF 5% 400V
2140	4822 126 12784	22nF 20% 100V
2141	4822 124 40255	100µF 20% 63V

3100	4822 116 52258	220k 5% 0,5W
3101	4822 116 52274	36k 5% 0,5W
3102▲	4822 116 52215	220Ω 5% 0,5W
3105	4822 116 52267	30k 5% 0,5W
3106	4822 116 52267	30k 5% 0,5W
3107	4822 052 10332	3k3 5% 0,33W
3108	4822 052 10332	3k3 5% 0,33W
3109	4822 052 10332	3k3 5% 0,33W
3110▲	4822 116 52197	56Ω 5% 0,5W
3111▲	4822 116 52197	56Ω 5% 0,5W
3115	4822 116 80176	1Ω 5% 0,5W
3121	4822 116 52296	6k8 5% 0,5W
3122	4822 116 52296	6k8 5% 0,5W
3140	4822 116 52175	100Ω 5% 0,5W
3141	4822 116 52175	100Ω 5% 0,5W
3142▲	4822 116 52283	4k7 5% 0,5W
3143▲	4822 116 52256	2k2 5% 0,5W
3144▲	4822 116 52283	4k7 5% 0,5W
3145	4822 116 52296	6k8 5% 0,5W
3146	4822 116 52296	6k8 5% 0,5W
3148	4822 050 11002	1k 1% 0,4W
3149	4822 116 52175	100Ω 5% 0,5W
3198	4822 051 10333	33k 2% 0,25W
3198	4822 116 52264	27k 5% 0,5W
3199	4822 051 10333	33k 2% 0,25W
3199	4822 116 52264	27k 5% 0,5W

5110	4822 157 63256	Coil CU15

6100▲	4822 130 32896	BYD33M
6101▲	4822 130 32896	BYD33M
6103	4822 130 34499	BZX79-C20
6120	4822 130 34233	BZX79-C5V1

7100	4822 130 63364	IRFI640G
7140	4822 209 63896	PCF8574AP
7141	4822 130 44257	BC547
7142▲	4822 209 32126	SOC1012T

Picture tube panel [E]

	4822 265 20509	2P male grey
▲	4822 265 40596	2P male Vg2
	4822 267 41146	6P male
	4822 267 60379	7P male

Various

1030	4822 212 31321	PTP 29"
1030	4822 212 31385	PTP 25"-28"-33"
1030	4822 212 31322	PTP 28" FL2.24
1030	4822 212 31323	PTP 32" FL2.24
	4822 255 70261	Socket for CRT 25"-28"-33"
	4822 267 51225	Socket for CRT 29"
	4822 267 51249	Socket for CRT 28" FL2.24
	4822 267 51248	Socket for CRT 32" FL2.24
	4822 492 70788	Spring fix IC
	4822 404 31199	Bracket

2700	4822 126 11824	100pF 10% 1kV
2701	4822 122 32139	12pF 2% 63V
2701	4822 122 32507	6,8pF 5% 50V
2702	4822 122 31784	4,7nF 10% 50V
2703	4822 121 42068	33 nF 10% 400V
2704	4822 122 31746	1nF 2% 63V
2705▲	4822 124 40433	47µF 20% 25V
2706	4822 122 31797	22nF 10% 63V
2707	4822 121 51562	33nF 10% 1600V
2707	4822 121 70093	33nF 5% 2kV
2708	4822 122 31773	560pF 2% 63V
2708	5322 122 31842	330pF 2% 63V
2709	4822 124 80091	4,7µF 20% 250V
2710	4822 122 31797	22nF 10% 63V
2711	4822 122 31971	10pF 2% 63V
2711	4822 122 32507	6,8pF 5% 50V
2712	4822 122 31784	4,7nF 10% 50V
2713	4822 121 42068	33 nF 10% 400V
2714	4822 122 31746	1nF 2% 63V
2715	4822 121 42068	33 nF 10% 400V
2720	4822 122 31825	27pF 2% 63V
2721	4822 122 31971	10pF 2% 63V
2721	4822 122 32504	15pF 2% 63V
2722	4822 122 31784	4,7nF 10% 50V
2724	4822 122 31746	1nF 2% 63V
2725	4822 122 31774	56pF 2% 63V
2726	4822 122 31774	56pF 2% 63V
2727	4822 122 31774	56pF 2% 63V
2729	4822 121 41156	68nF 10% 250V

3700	4822 051 20222	2k2 5% 0,1W
3701▲	4822 052 11108	1Ω 5% 0,5W
3701	4822 052 11338	3Ω3 5% 0,5W
3701	4822 052 11398	3Ω9 5% 0,5W
3702	4822 051 10201	200Ω 2% 0,25W
3703▲	4822 052 11108	1Ω 5% 0,5W
3703	4822 052 11338	3Ω3 5% 0,5W
3703	4822 052 11398	3Ω9 5% 0,5W
3704	4822 051 10222	2k2 2% 0,25W
3704	4822 051 10272	2k7 2% 0,25W
3705▲	4822 051 10242	2k4 2% 0,25W
3705	4822 051 10332	3k3 2% 0,25W
3706	4822 050 21204	120k 1% 0,6W
3706	4822 050 21504	150k 1% 0,6W
3707	4822 051 10008	0Ω 5% 0,25W
3708	4822 111 50579	680Ω 10% 0,5W
3709	4822 051 10124	120k 2% 0,25W
3709	4822 051 10154	150k 2% 0,25W
3710	4822 051 10333	33k 2% 0,25W
3710	4822 051 10822	8k2 2% 0,25W
3712	4822 051 10201	200Ω 2% 0,25W
3714	4822 051 10272	2k7 2% 0,25W
3714	4822 051 20222	2k2 5% 0,1W
3715▲	4822 051 10242	2k4 2% 0,25W
3715	4822 051 10332	3k3 2% 0,25W
3716	4822 050 21204	120k 1% 0,6W
3716	4822 050 21504	150k 1% 0,6W
3718	4822 111 50579	680Ω 10% 0,5W
3719	4822 051 10333	33k 2% 0,25W
3720	4822 051 10823	82k 2% 0,25W
3722	4822 051 10201	200Ω 2% 0,25W
3723	4822 050 11002	1k 1% 0,4W
3724	4822 051 10272	2k7 2% 0,25W
3724	4822 051 20222	2k2 5% 0,1W
3725▲	4822 051 10242	2k4 2% 0,25W
3725	4822 051 10332	3k3 2% 0,25W
3726	4822 050 21204	120k 1% 0,6W
3726	4822 050 21504	150k 1% 0,6W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 41572	220Ω 10% 0,5W
3728	4822 111 50579	680Ω 10% 0,5W
3730	4822 111 50518	1k5 5% 0,5W
3731▲	4822 052 10279	27Ω 5% 0,33W
3732▲	4822 052 10189	18Ω 5% 0,33W
3733	4822 051 10008	0Ω 5% 0,25W
3734	4822 050 21604	160k 1% 0,6W
3735▲	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10123	12k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W
3738	4822 053 12823	82k 5% 3W
3739	4822 101 11185	47kΩ 10%
3740	4822 050 21604	160k 1% 0,6W
3741	4822 116 52221	360Ω 5% 0,5W
3742	4822 116 52221	360Ω 5% 0,5W
3743	4822 116 52221	360Ω 5% 0,5W
3744▲	4822 052 10229	22Ω 5% 0,33W
3750▲	4822 051 10103	10k 2% 0,25W
3750	4822 051 10223	22k 2% 0,25W
3750	4822 051 10563	56k 2% 0,25W
3750	4822 051 10823	82k 2% 0,25W
3998	4822 051 10223	22k 2% 0,25W
3998	4822 051 10823	82k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

5700	4822 157 70635	33µH 7,5%
5700	4822 157 70636	82µH 5%
5700	4822 157 70854	39µH 5%
5703	4822 157 70635	33µH 7,5%

6700	4822 130 80879	LLZ-C3V0
6701	4822 130 80877	BAV103
6702	4822 130 80877	BAV103
6703	4822 130 80877	BAV103
6707	4822 130 82345	LLZ-C22
6708▲	4822 130 32896	BYD33M
6709	4822 130 82969	BZD23-C24
6710	4822 130 30842	BAV21
6711	4822 130 30842	BAV21
6712	4822 130 30842	BAV21

7704	4822 130 60373	BC856B
7705	4822 209 30417	TDA6111Q/N2
7706	4822 209 30417	TDA6111Q/N2
7707	4822 209 30417	TDA6111Q/N2

Euro AV3 panel [R]

	4822 265 31174	6P grey

Various

	4822 267 51335	Socket scart
1022	4822 212 31256	Scart panel

2301	4822 121 42408	220nF 5% 63V
2304	4822 121 70438	330pF 5% 100V
2306	4822 121 70438	330pF 5% 100V

3304▲	4822 050 21002	1k 1% 0,6W
3306▲	4822 050 21002	1k 1% 0,6W

Euro AV3 interface panel [P]

	4822 265 51371	Strip 29P
	4822 265 31174	6P grey

Various

1255	4822 212 31257	Scart interface panel

2005	4822 124 41576	2,2µF 20% 50V
2007	4822 124 41576	2,2µF 20% 50V
2031	4822 122 31971	10pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2042	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2044	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 31947	100nF 20% 63V
2048	4822 122 32927	220nF 20% 50V
2049	4822 122 32927	220nF 20% 50V
2217	4822 124 22606	68µF 20% 16V
2218	4822 124 22606	68µF 20% 16V
2219	4822 124 22606	68µF 20% 16V

3003	4822 051 10223	22k 2% 0,25W
3005	4822 051 10223	22k 2% 0,25W
3013	4822 116 52224	470Ω 5% 0,5W
3015▲	4822 051 10103	10k 2% 0,25W
3016	4822 051 10271	270Ω 2% 0,25W
3017	4822 051 10271	270Ω 2% 0,25W
3020▲	4822 051 10103	10k 2% 0,25W
3021▲	4822 051 10103	10k 2% 0,25W
3022	4822 051 10271	270Ω 2% 0,25W
3023▲	4822 116 52215	220Ω 5% 0,5W
3025▲	4822 051 10103	10k 2% 0,25W
3026	4822 051 10271	270Ω 2% 0,25W
3027	4822 051 10271	270Ω 2% 0,25W
3030▲	4822 051 10103	10k 2% 0,25W
3031	4822 051 10271	270Ω 2% 0,25W
3032	4822 051 10271	270Ω 2% 0,25W
3040	4822 116 52238	12k 5% 0,5W
3041	4822 116 52238	12k 5% 0,5W
3042	4822 116 52175	100Ω 5% 0,5W
3047▲	4822 116 52283	4k7 5% 0,5W
3048	4822 051 10331	330Ω 2% 0,25W
3210	4822 116 81217	2Ω2 5% 0,3W
3211	4822 116 83584	5Ω6 5% 0,3W
3212▲	4822 116 81193	15Ω 5% 0,3W
4xxx	4822 051 10008	0Ω 5% 0,25W

5031	4822 152 20677	10µH 10%

6040	4822 130 80446	LL4148
6041	4822 130 80446	LL4148

7015	4822 130 61207	BC848
7020	4822 130 61207	BC848
7025	4822 130 61207	BC848
7030	4822 130 61207	BC848
7040	4822 209 63292	TEA6414
7200	4822 209 10263	4052B

Spare parts list / Stükliste / Liste des pièces

LFR-box [L] [M]

	4822 265 61259	PLCC socket 68P
	4822 265 41328	10P female

Various

1750	4822 212 31229	LFR-box FLX.14/16
1750	4822 212 31233	LFR-box FLX.24/26
1750	4822 212 31313	LFR-box FL2.24 /58
1750	4822 212 31314	LFR-box FL2.24 /62
1001	4822 242 72572	Crystal 12 MHz
1002	4822 242 71417	Crystal 13,875 MHz

⊣⊢

2000	4822 122 33496	100nF 10% 63V
2001	4822 122 33496	100nF 10% 63V
2002	4822 122 33496	100nF 10% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 122 33496	100nF 10% 63V
2005	4822 122 33496	100nF 10% 63V
2006	4822 124 40731	330µF 20% 6,3V
2007	4822 122 33496	100nF 10% 63V
2010	4822 122 33496	100nF 10% 63V
2011	4822 122 33496	100nF 10% 63V
2012	4822 122 33496	100nF 10% 63V
2013	4822 122 33496	100nF 10% 63V
2014	4822 122 33496	100nF 10% 63V
2015	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2017	4822 122 33496	100nF 10% 63V
2018	4822 122 33496	100nF 10% 63V
2022	4822 122 33496	100nF 10% 63V
2023	4822 122 33496	100nF 10% 63V
2026	4822 122 32083	8,2pF 5% 50V
2027	4822 122 31961	68pF 2% 63V
2028	4822 122 31772	47pF 2% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 32083	8,2pF 5% 50V
2031	4822 122 31767	150pF 2% 63V
2032	4822 122 31772	47pF 2% 63V
2033	4822 122 32083	8,2pF 5% 50V
2034	4822 122 33496	100nF 10% 63V
2035	4822 122 31767	150pF 2% 63V
2036	4822 122 31772	47pF 2% 63V
2037	4822 122 31765	100pF 2% 63V
2038	4822 122 31765	100pF 2% 63V
2039	4822 124 41643	100µF 20% 16V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 31825	27pF 2% 63V
2043▲	4822 122 32442	10nF 50V
2044▲	4822 122 32442	10nF 50V
2045	4822 124 41576	2,2µF 20% 50V
2046	4822 124 40248	10µF 20% 63V
2047	4822 122 32504	15pF 2% 63V
2048	4822 124 41576	2,2µF 20% 50V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 41997	470µF 10V
2051	4822 122 32504	15pF 2% 63V
2052	4822 122 32142	270pF 2% 63V
2053	4822 122 32891	68nF 10% 63V
2054	4822 122 32504	15pF 2% 63V
2055	5322 122 31647	1nF 10% 63V
2056	4822 122 31727	470pF 2% 63V
2057	4822 122 31797	22nF 10% 63V
2058	4822 122 32142	270pF 2% 63V
2059	4822 122 31765	100pF 2% 63V
2060	4822 122 31825	27pF 2% 63V
2061	4822 122 31825	27pF 2% 63V
2062	4822 122 31825	27pF 2% 63V
2063	4822 122 31772	47pF 2% 63V
2064	4822 124 41643	100µF 20% 16V
2065	4822 122 33496	100nF 10% 63V
2066	4822 122 33496	100nF 10% 63V
2067	4822 122 33496	100nF 10% 63V
2068	4822 122 33496	100nF 10% 63V
2069	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2071	4822 124 41643	100µF 20% 16V
2072	5322 122 31647	1nF 10% 63V
2073	4822 122 31839	82pF 2% 63V
2074	4822 122 31981	33nF 5% 50V
2075	4822 122 33496	100nF 10% 63V
2076	5322 122 31842	330pF 2% 63V
2077	4822 124 41576	2,2µF 20% 50V
2078	4822 122 33496	100nF 10% 63V
2079	4822 121 42937	2,7nF 1% 250V
2080	5322 124 41431	22µF 20% 35V
2081▲	4822 124 40246	4,7µF 20% 63V
2082	4822 122 31772	47pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 33496	100nF 10% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31825	27pF 2% 63V
2087	4822 122 31825	27pF 2% 63V
2088	4822 122 31797	22nF 10% 63V
2090	4822 122 31772	47pF 2% 63V
2091	4822 122 31746	1nF 2% 63V
2092▲	4822 124 40433	47µF 20% 25V
2093	4822 124 41997	470µF 10V
2094	4822 122 33496	100nF 10% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31746	1nF 2% 63V
2098	4822 124 22606	68µF 20% 16V
2099	4822 122 33496	100nF 10% 63V
2100	4822 122 33496	100nF 10% 63V
2102	4822 122 31644	2,2nF 10% 63V
2103	4822 124 41097	220µF 20% 16V
2105	4822 122 33496	100nF 10% 63V
2106	4822 124 41643	100µF 20% 16V
2107	4822 122 33496	100nF 10% 63V
2108	4822 122 31765	100pF 2% 63V
2109	4822 122 32506	5,6pF 5% 50V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31842	330pF 2% 63V
2112	4822 122 31981	33nF 5% 50V
2113	4822 122 31644	2,2nF 10% 63V
2114	4822 126 11492	220nF 10% 50V
2115	4822 126 11492	220nF 10% 50V
2116	4822 122 31768	180pF 2% 63V
2117▲	4822 122 32442	10nF 50V
2118	4822 122 33496	100nF 10% 63V
2119	4822 122 33496	100nF 10% 63V
2120	4822 122 31965	220pF 2% 63V
2121	4822 122 31965	220pF 2% 63V
2122	5322 122 31842	330pF 2% 63V
2123	4822 122 33496	100nF 10% 63V
2124	4822 122 31767	150pF 2% 63V
2125	4822 122 33498	2,7nF 10% 63V
2126	4822 122 33496	100nF 10% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31767	150pF 2% 63V
2129	4822 122 33496	100nF 10% 63V
2130	4822 122 31771	390pF 2% 63V
2131	4822 122 31825	27pF 2% 63V
2132	5322 122 31842	330pF 2% 63V
2133	4822 122 31825	27pF 2% 63V
2134	4822 122 31771	390pF 2% 63V
2136	4822 122 31825	27pF 2% 63V
2150▲	4822 124 40433	47µF 20% 25V
2151	4822 122 31772	47pF 2% 63V
2152	4822 122 33496	100nF 10% 63V
2153	4822 122 31772	47pF 2% 63V
2160	4822 122 33498	2,7nF 10% 63V
2161	4822 122 31825	27pF 2% 63V
2162	4822 122 31971	10pF 2% 63V
2163	4822 126 11492	220nF 10% 50V
2164	4822 122 31971	10pF 2% 63V
2165	4822 126 10324	33pF 2% 63V
2166	4822 122 31772	47pF 2% 63V
2167	4822 122 31772	47pF 2% 63V
2168	4822 126 10324	33pF 2% 63V
2169	4822 124 40849	330µF 20% 16V
2170	4822 122 32139	12pF 2% 63V
2172	4822 122 31839	82pF 2% 63V
2175	4822 122 33496	100nF 10% 63V
2179	4822 122 33496	100nF 10% 63V
2180	4822 122 31797	22nF 10% 63V
2181	4822 122 31772	47pF 2% 63V
2184	4822 122 32139	12pF 2% 63V
2185▲	4822 124 40433	47µF 20% 25V
2186▲	4822 124 40433	47µF 20% 25V
2187	4822 124 40731	330µF 20% 6,3V
2188	4822 122 31772	47pF 2% 63V
2190	4822 126 11492	220nF 10% 50V

⊣□⊢

3000	4822 051 10162	1k6 2% 0,25W
3001▲	4822 111 41424	22Ω 5% 0,3W
3002▲	4822 051 10242	2k4 2% 0,25W
3003	4822 051 10682	6k8 2% 0,25W
3004▲	4822 051 10472	4k7 2% 0,25W
3006▲	4822 050 24708	4Ω7 1% 0,6W
3007	4822 051 10209	20Ω 2% 0,25W
3008	4822 051 10008	0Ω 5% 0,25W
3009	4822 051 10829	82Ω 2% 0,25W
3011	4822 051 10101	100Ω 2% 0,25W
3012	4822 051 10339	33Ω 2% 0,25W
3013	4822 051 52201	220Ω 1% 0,125W
3014	4822 051 10101	100Ω 2% 0,25W
3016	4822 051 10759	75Ω 2% 0,25W
3017	4822 051 53601	360Ω 1% 0,125W
3019	4822 111 41423	18Ω 5% 0,3W
3020	4822 051 10181	180Ω 2% 0,25W
3021	4822 051 10101	100Ω 2% 0,25W
3022	4822 051 10101	100Ω 2% 0,25W
3023	4822 051 10008	0Ω 5% 0,25W
3024	4822 051 10473	47k 2% 0,25W
3025	4822 051 10102	1k 2% 0,25W
3026	4822 051 10181	180Ω 2% 0,25W
3027	4822 051 10132	1k3 2% 0,25W
3028	4822 051 10221	220Ω 2% 0,25W
3029	4822 051 10683	68k 2% 0,25W
3030	4822 051 10681	680Ω 2% 0,25W
3031	4822 051 10561	560Ω 2% 0,25W
3032	4822 051 10561	560Ω 2% 0,25W
3033	4822 051 10561	560Ω 2% 0,25W
3034	4822 051 10759	75Ω 2% 0,25W
3035	4822 051 20222	2k2 5% 0,1W
3036	4822 051 10221	220Ω 2% 0,25W
3037▲	4822 111 41424	22Ω 5% 0,3W
3038▲	4822 051 10103	10k 2% 0,25W
3039	4822 051 10683	68k 2% 0,25W
3040	4822 051 10104	100k 2% 0,25W
3041	4822 051 10561	560Ω 2% 0,25W
3042	4822 051 10102	1k 2% 0,25W
3043▲	4822 051 10103	10k 2% 0,25W
3044▲	4822 052 10279	27Ω 5% 0,33W
3045	4822 051 10162	1k6 2% 0,25W
3046	4822 051 10272	2k7 2% 0,25W
3047	4822 051 10332	3k3 2% 0,25W
3048	4822 051 10562	5k6 2% 0,25W
3049	4822 051 10229	22Ω 2% 0,25W
3050	4822 051 10122	1k2 2% 0,25W
3051	4822 051 10303	30k 2% 0,25W
3052	4822 051 10513	51k 2% 0,25W
3053	4822 051 10821	820Ω 2% 0,25W
3054	4822 100 20166	10k 30% lin
3055	4822 051 10181	180Ω 2% 0,25W
3055	4822 051 10221	220Ω 2% 0,25W
3056▲	4822 051 10472	4k7 2% 0,25W
3057▲	4822 051 10472	4k7 2% 0,25W
3058▲	4822 051 10472	4k7 2% 0,25W
3060	4822 051 10123	12k 2% 0,25W
3061	4822 051 10622	6k2 2% 0,25W
3062▲	4822 051 10103	10k 2% 0,25W
3063	4822 051 10471	470Ω 2% 0,25W
3064	4822 051 10104	100k 2% 0,25W
3065	4822 051 10223	22k 2% 0,25W
3066▲	4822 051 10242	2k4 2% 0,25W
3067	4822 051 10109	10Ω 2% 0,25W
3068▲	4822 051 10103	10k 2% 0,25W
3071	4822 051 10008	0Ω 5% 0,25W
3074▲	4822 051 10242	2k4 2% 0,25W
3075▲	4822 051 10103	10k 2% 0,25W
3076	4822 051 10221	220Ω 2% 0,25W
3078	4822 051 10223	22k 2% 0,25W
3079	4822 051 10471	470Ω 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 051 20222	2k2 5% 0,1W
3084	4822 051 10473	47k 2% 0,25W
3085▲	4822 116 81193	15Ω 5% 0,3W
3086	4822 051 10473	47k 2% 0,25W
3087	4822 051 10151	150Ω 2% 0,25W
3087	4822 051 10471	470Ω 2% 0,25W
3089	4822 116 81192	12Ω 5% 0,3W
3090	4822 051 10102	1k 2% 0,25W
3091	4822 051 51201	120Ω 1% 0,125W
3092	4822 051 10224	220k 2% 0,25W
3093	4822 051 10104	100k 2% 0,25W
3094	4822 051 10124	120k 2% 0,25W
3095	4822 051 10223	22k 2% 0,25W
3096	4822 051 10479	47Ω 2% 0,25W
3097	4822 051 10223	22k 2% 0,25W
3098	4822 051 10151	150Ω 2% 0,25W
3099	4822 051 10272	2k7 2% 0,25W
3100	4822 051 10221	220Ω 2% 0,25W
3101	4822 051 10122	1k2 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 53301	330Ω 1% 0,125W
3105▲	4822 051 10472	4k7 2% 0,25W
3106	4822 051 10152	1k5 2% 0,25W
3107	4822 051 52201	220Ω 1% 0,125W
3108▲	4822 051 10472	4k7 2% 0,25W
3109	4822 051 10109	10Ω 2% 0,25W
3110	4822 051 10681	680Ω 2% 0,25W
3111	4822 051 10102	1k 2% 0,25W
3112	4822 051 10181	180Ω 2% 0,25W
3113	4822 051 10152	1k5 2% 0,25W
3114	4822 051 53601	360Ω 1% 0,125W
3115	4822 051 10101	100Ω 2% 0,25W
3116▲	4822 051 10472	4k7 2% 0,25W
3117	4822 051 10102	1k 2% 0,25W
3118	4822 051 56201	620Ω 1% 0,125W
3119▲	4822 051 10103	10k 2% 0,25W
3120	4822 051 10271	270Ω 2% 0,25W
3121	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10221	220Ω 2% 0,25W
3125	4822 051 52701	270Ω 1% 0,125W
3127	4822 051 59101	910Ω 1% 0,125W
3128	4822 051 10271	270Ω 2% 0,25W
3160	4822 051 10562	5k6 2% 0,25W
3161	4822 051 20222	2k2 5% 0,1W
3162	4822 051 10102	1k 2% 0,25W
3163	4822 051 20222	2k2 5% 0,1W
3166	4822 051 10569	56Ω 2% 0,25W
3167	4822 051 53301	330Ω 1% 0,125W
3168	4822 051 10471	470Ω 2% 0,25W
3169▲	4822 051 10103	10k 2% 0,25W
3176	4822 051 10221	220Ω 2% 0,25W
3180	4822 051 10101	100Ω 2% 0,25W
3181	4822 051 10101	100Ω 2% 0,25W
3182	4822 051 10102	1k 2% 0,25W
3183	4822 051 10471	470Ω 2% 0,25W
3184	4822 051 10101	100Ω 2% 0,25W
3201	4822 051 10102	1k 2% 0,25W
3202	4822 051 10102	1k 2% 0,25W
3203	4822 051 10102	1k 2% 0,25W
3227	4822 051 10151	150Ω 2% 0,25W
3228	4822 051 10182	1k8 2% 0,25W
3300	4822 051 10339	33Ω 2% 0,25W
3300	4822 051 10279	27Ω 2% 0,25W
3300	4822 051 10569	56Ω 2% 0,25W
3300	4822 051 10471	470Ω 2% 0,25W
3300	4822 051 10561	560Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5000	4822 157 50961	22µH 10%
5001	4822 157 60147	2,2µH
5002	4822 157 60147	2,2µH
5003	4822 157 60147	2,2µH
5004	4822 157 60147	2,2µH
5005	4822 157 60147	2,2µH
5006	4822 157 60147	2,2µH
5007	4822 157 60147	2,2µH
5008	4822 157 52403	3,3µH 10%
5009	4822 157 60147	2,2µH
5010	4822 157 52403	3,3µH 10%
5011	4822 157 60147	2,2µH
5012	4822 157 52403	3,3µH 10%
5013	4822 157 60147	2,2µH
5014	4822 157 52224	15µH 10%
5015	4822 157 60147	2,2µH
5016	4822 157 52138	27µH 10%
5017	4822 157 60147	2,2µH
5018	4822 157 60147	2,2µH
5019	4822 157 52403	3,3µH 10%
5020	4822 157 60147	2,2µH
5021	4822 157 60147	2,2µH
5022	4822 157 60498	56µH 10%
5023	4822 156 11145	1,0µH 6%
5025	4822 156 11143	4,3µH 6%
5026	4822 157 60147	2,2µH
5027	4822 156 11144	3,3µH 6%
5028	4822 157 60147	2,2µH
5030	4822 157 63834	3,9µH 10%
5031	4822 157 63834	3,9µH 10%
5032	4822 157 63834	3,9µH 10%
5033	4822 152 20677	10µH 10%
5034	4822 157 60147	2,2µH
5035	4822 157 53634	5,6µH 10%

⊣▸⊢

6000	4822 130 80446	LL4148
6001	4822 130 80884	LLZ-C5V1
6002	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6005	4822 130 80446	LL4148
6006	4822 130 31253	BZX55-C2V4
6007	4822 130 80888	BA682
6008	4822 130 80888	BA682
6009	5322 130 80119	BBY40
6010	5322 130 80119	BBY40
6013	4822 130 80954	LLZ-C5V6
6014	4822 130 80446	LL4148

⊗▭

7000	5322 130 42136	BC848C
7010	5322 130 42136	BC848C
7011	5322 130 41983	BC858B
7012▲	5322 130 41982	BC848B
7013	4822 130 61207	BC848
7014	5322 130 41983	BC858B
7022▲	5322 130 41982	BC848B
7023	4822 130 42513	BC858C
7024	5322 130 42012	BC858
7025	5322 130 41983	BC858B
7026▲	5322 130 4	
7027	4822 130 6	
7029▲	5322 130 4	
7030	4822 130 4	
7034	4822 130 4	
7035	4822 130 4	
7036	5322 130 4	
7037	4822 130 6	
7038	5322 130 4	
7039	5322 130 4	
7040	4822 130 4	
7042	5322 130 4	
7060	5322 130 4	
7120	4822 209 3	
7201	4822 209 3	
7202	4822 209 3	
7203	4822 209 3	
7204	4822 209 6	
7205	4822 209 6	
7206	4822 209 6	
7207	4822 209 3	
7208	4822 209 3	
7209	4822 209 3	
7210	4822 209 7	
7214	4822 209 6	
7215	4822 209 3	
7215	4822 209 3	
7215	4822 209 3	
7216	4822 209 6	
7217	4822 209 6	
7218	5322 209 6	
7219	4822 209 6	
7221▲	4822 209 8	
7231	4822 209 7	
7232	4822 209 5	
7244	5322 209 6	
7261	4822 209 7	

ECO-box [L

4822 255 4	
4822 265 4	

Various

1750	4822 212 3	
1064	4822 242 7	
1162	4822 242 7	

⊣⊢

2001	4822 122 3	
2002	4822 122 3	
2004	4822 122 3	
2005	4822 122 3	
2006	4822 122 3	
2007	4822 122 3	
2008	4822 122 3	
2009	4822 122 3	
2010	4822 124 2	
2011	4822 122 3	
2012	4822 124 4	
2013	4822 122 3	
2016	4822 122 3	
2019	4822 122 3	
2024	4822 126 1	
2025▲	4822 124 4	
2026	4822 122 3	
2027▲	4822 124 4	
2028	4822 122 3	
2029	4822 122 3	
2030	4822 122 3	
2031	4822 124 4	
2032	4822 122 3	
2033	4822 124 4	
2034	4822 122 3	
2035▲	4822 124 4	
2036	4822 124 4	
2037	4822 122 3	
2038	4822 122 3	
2040	4822 122 3	
2041	4822 122 3	
2042	4822 122 3	
2046	4822 122 3	
2047	4822 122 3	
2048	4822 122 3	
2049	4822 122 3	
2050	4822 122 3	
2051	4822 122 3	
2052	4822 122 3	
2053	4822 122 3	

7026▲	5322 130 41982	BC848B
7027	4822 130 61207	BC848
7029▲	5322 130 41982	BC848B
7030	4822 130 40938	BC548
7034	4822 130 42131	BF550
7035	4822 130 42513	BC858C
7036	5322 130 42136	BC848C
7037	4822 130 61207	BC848
7038	5322 130 42136	BC848C
7039	5322 130 42136	BC848C
7040	4822 130 42131	BF550
7042	5322 130 42136	BC848C
7060	5322 130 42136	BC848C
7120	4822 209 33289	P83C652FFP/050 V34D
7201	4822 209 32483	MSM514221A
7202	4822 209 32483	MSM514221A
7203	4822 209 32483	MSM514221A
7204	4822 209 60525	TMS4C1050-3N
7205	4822 209 60525	TMS4C1050-3N
7206	4822 209 60525	TMS4C1050-3N
7207	4822 209 31056	SDA9205-2
7208	4822 209 31057	UPD65640G-011-3B9
7209	4822 209 31059	SAA7158
7210	4822 209 72042	MC78L05ACP
7214	4822 209 63645	SAA5231/V7
7215	4822 209 31851	SAA9042P/A/MOB
7215	4822 209 33287	SAA9042P/B/MOB /58
7215	4822 209 33288	SAA9042P/C/MOB /62
7216	4822 209 63423	TDA2579B/N2
7217	4822 209 63644	SDA9086-3
7218	5322 209 61004	N74F74D
7219	4822 209 63892	UPD65636C-040
7221▲	4822 209 83163	LM833N
7231	4822 209 72042	MC78L05ACP
7232	4822 209 52359	HYB514256B-70
7244	5322 209 61004	N74F74D
7261	4822 209 72042	MC78L05ACP

ECO-box [L']

	4822 255 41312	PLCC socket 68P
	4822 265 41328	10P female

Various

1750	4822 212 31392	ECO-box FL4.27
1064	4822 242 72572	Crystal 12 MHz
1162	4822 242 71417	Crystal 13,875

2001	4822 122 31768	180pF 2% 63V
2002	4822 122 32504	15pF 2% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31971	10pF 2% 63V
2006	4822 122 32765	820pF 2% 63V
2007	4822 122 31768	180pF 2% 63V
2008	4822 122 31971	10pF 2% 63V
2009	4822 122 32765	820pF 2% 63V
2010	4822 124 22347	47µF 20% 50V
2011	4822 122 33496	100nF 10% 63V
2012	4822 124 41643	100µF 20% 16V
2013	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2019	4822 122 33496	100nF 10% 63V
2024	4822 126 11492	220nF 10% 50V
2025▲	4822 124 40196	220µF 20% 16V
2026	4822 122 33496	100nF 10% 63V
2027▲	4822 124 40196	220µF 20% 16V
2028	4822 122 33496	100nF 10% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40248	10µF 20% 63V
2032	4822 122 33496	100nF 10% 63V
2033	4822 124 40248	10µF 20% 63V
2034	4822 122 33496	100nF 10% 63V
2035▲	4822 124 40196	220µF 20% 16V
2036	4822 124 41643	100µF 20% 16V
2037	4822 122 33496	100nF 10% 63V
2038	4822 122 33496	100nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 33496	100nF 10% 63V
2042	4822 122 33496	100nF 10% 63V
2046	4822 122 31765	100pF 2% 63V
2047	4822 122 31972	39pF 2% 63V
2048	4822 122 32142	270pF 2% 63V
2049	4822 122 31769	18pF 2% 63V
2050	4822 122 31971	10pF 2% 63V
2051	4822 122 31767	150pF 2% 63V
2052	4822 122 32083	8,2pF 5% 50V
2053	4822 122 31772	47pF 2% 63V
2055	4822 122 32083	8,2pF 5% 50V
2056	4822 122 31767	150pF 2% 63V
2057	4822 122 31772	47pF 2% 63V
2058	4822 122 33496	100nF 10% 63V
2060	4822 122 33496	100nF 10% 63V
2061	4822 122 33496	100nF 10% 63V
2062	4822 122 33496	100nF 10% 63V
2063	4822 122 33496	100nF 10% 63V
2064	4822 122 31825	27pF 2% 63V
2065	4822 122 31971	10pF 2% 63V
2066	4822 122 33496	100nF 10% 63V
2070	4822 122 31765	100pF 2% 63V
2071	4822 122 31765	100pF 2% 63V
2072	4822 122 31765	100pF 2% 63V
2073	5322 122 33446	3,3nF 10% 63V
2074	4822 122 31765	100pF 2% 63V
2075	4822 122 31765	100pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 31765	100pF 2% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31765	100pF 2% 63V
2090	4822 122 33496	100nF 10% 63V
2091	4822 122 33498	2,7nF 10% 63V
2092	4822 122 33496	100nF 10% 63V
2094	4822 122 31765	100pF 2% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31644	2,2nF 10% 63V
2100▲	4822 124 40196	220µF 20% 16V
2101	4822 122 33496	100nF 10% 63V
2105	4822 122 33496	100nF 10% 63V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31647	1nF 10% 63V
2112	4822 122 31839	82pF 2% 63V
2113	4822 122 33496	100nF 10% 63V
2114	4822 122 33496	100nF 10% 63V
2118	4822 121 42937	2,7nF 1% 250V
2122	4822 122 31765	100pF 2% 63V
2123	4822 122 31772	47pF 2% 63V
2125	4822 122 31746	1nF 2% 63V
2126	4822 122 31746	1nF 2% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31765	100pF 2% 63V
2140	4822 122 31772	47pF 2% 63V
2141	4822 124 40248	10µF 20% 63V
2142	4822 122 32139	12pF 2% 63V
2145	4822 124 41576	2,2µF 20% 50V
2146	4822 122 32142	270pF 2% 63V
2150	4822 122 33496	100nF 10% 63V
2151	4822 124 41643	100µF 20% 16V
2152	4822 122 31825	27pF 2% 63V
2155	4822 122 32504	15pF 2% 63V
2156	5322 122 31647	1nF 10% 63V
2157	4822 122 31727	470pF 2% 63V
2158	4822 122 31797	22nF 10% 63V
2159	4822 122 32142	270pF 2% 63V
2160	4822 122 31765	100pF 2% 63V
2161	4822 122 32891	68nF 10% 63V
2162	4822 122 32504	15pF 2% 63V
2163▲	4822 122 32442	10nF 50V
2164▲	4822 122 32442	10nF 50V
2165	4822 122 33496	100nF 10% 63V
2166	4822 122 33496	100nF 10% 63V
2167	5322 122 31842	330pF 2% 63V
2168▲	4822 122 32442	10nF 50V
2169	4822 122 33496	100nF 10% 63V
2170	4822 122 33496	100nF 10% 63V
2175	4822 124 41576	2,2µF 20% 50V
2176	4822 122 33496	100nF 10% 63V
2177	4822 124 41997	470µF 10V
2178	4822 122 33496	100nF 10% 63V
2179	5322 122 31647	1nF 10% 63V
2180	4822 122 31825	27pF 2% 63V
2181	4822 122 31825	27pF 2% 63V
2182	4822 122 31825	27pF 2% 63V
2183	4822 122 31772	47pF 2% 63V
2200	4822 122 31772	47pF 2% 63V
2201	4822 122 31765	100pF 2% 63V
2202	4822 122 31772	47pF 2% 63V
2210	4822 124 40248	10µF 20% 63V
2211	4822 122 33496	100nF 10% 63V

3001	4822 051 10151	150Ω 2% 0,25W
3002	4822 051 10101	100Ω 2% 0,25W
3003	4822 051 10109	10Ω 2% 0,25W
3004	4822 051 51201	120Ω 1% 0,125W
3005	4822 051 51201	120Ω 1% 0,125W
3009	4822 051 10181	180Ω 2% 0,25W
3010	4822 051 10681	680Ω 2% 0,25W
3011	4822 051 10821	820Ω 2% 0,25W
3012▲	4822 052 10279	27Ω 5% 0,33W
3013	4822 116 52231	820Ω 5% 0,5W
3014	4822 051 52401	240Ω 1% 0,125W
3015	4822 051 56201	620Ω 1% 0,125W
3016	4822 051 10471	470Ω 2% 0,25W
3017	4822 051 51501	150Ω 1% 0,125W
3018	4822 051 59101	910Ω 1% 0,125W
3019	4822 051 10471	470Ω 2% 0,25W
3023	4822 051 10271	270Ω 2% 0,25W
3024	4822 051 10102	1k 2% 0,25W
3025	4822 051 10162	1k6 2% 0,25W
3026▲	4822 051 10242	2k4 2% 0,25W
3028	4822 051 10209	20Ω 2% 0,25W
3045	4822 051 10479	47Ω 2% 0,25W
3046	4822 051 10221	220Ω 2% 0,25W
3047	4822 051 10339	33Ω 2% 0,25W
3048	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10339	33Ω 2% 0,25W
3050	4822 051 10102	1k 2% 0,25W
3051	4822 051 10339	33Ω 2% 0,25W
3052	4822 051 52201	220Ω 1% 0,125W
3055	4822 051 10759	75Ω 2% 0,25W
3056	4822 051 53301	330Ω 1% 0,125W
3057	4822 051 53601	360Ω 1% 0,125W
3060	4822 051 10512	5k1 2% 0,25W
3062▲	4822 052 10279	27Ω 5% 0,33W
3070	4822 051 10101	100Ω 2% 0,25W
3071	4822 051 10182	1k8 2% 0,25W
3072	4822 051 10182	1k8 2% 0,25W
3075	4822 051 10102	1k 2% 0,25W
3076▲	4822 051 10472	4k7 2% 0,25W
3077▲	4822 051 10472	4k7 2% 0,25W
3078	4822 051 10101	100Ω 2% 0,25W
3080	4822 051 10221	220Ω 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 116 52195	47Ω 5% 0,5W
3084	4822 051 10272	2k7 2% 0,25W
3085	4822 051 10101	100Ω 2% 0,25W
3086	4822 051 10101	100Ω 2% 0,25W
3087	4822 051 10229	22Ω 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3090▲	4822 051 10103	10k 2% 0,25W
3091	4822 051 10109	10Ω 2% 0,25W
3092	4822 051 10622	6k2 2% 0,25W
3093	4822 051 10511	510Ω 2% 0,25W
3094▲	4822 051 10472	4k7 2% 0,25W
3095	4822 051 10562	5k6 2% 0,25W
3096	4822 051 20222	2k2 5% 0,1W
3097	4822 051 10102	1k 2% 0,25W
3098	4822 051 10102	1k 2% 0,25W
3099	4822 117 10823	2k7 1% 0,125W
3100▲	4822 052 10229	22Ω 5% 0,33W
3101▲	4822 051 10103	10k 2% 0,25W
3102▲	4822 051 10103	10k 2% 0,25W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 10104	100k 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10683	68k 2% 0,25W
3107	4822 051 10272	2k7 2% 0,25W
3110	4822 051 10162	1k6 2% 0,25W
3111	4822 051 10272	2k7 2% 0,25W
3112	4822 051 20222	2k2 5% 0,1W
3114	4822 051 10122	1k2 2% 0,25W
3115	4822 051 10105	1M 5% 0,25W
3116	4822 051 10562	5k6 2% 0,25W
3117	4822 051 10229	22Ω 2% 0,25W
3118	4822 051 10303	30k 2% 0,25W
3119	4822 100 20166	10k 30% lin
3120▲	4822 051 10103	10k 2% 0,25W
3121	4822 051 10332	3k3 2% 0,25W
3122	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10101	100Ω 2% 0,25W
3124	4822 051 10272	2k7 2% 0,25W
3125	4822 051 20222	2k2 5% 0,1W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10123	12k 2% 0,25W
3128	4822 051 10153	15k 2% 0,25W
3130	4822 051 56203	62k 1% 0,125W
3131	4822 100 11213	22k 30% lin
3132	4822 051 10102	1k 2% 0,25W
3134	4822 051 10152	1k5 2% 0,25W
3136	4822 051 10153	15k 2% 0,25W
3137▲	4822 051 10103	10k 2% 0,25W
3137	4822 051 10272	2k7 2% 0,25W
3139▲	4822 051 10103	10k 2% 0,25W
3141	4822 051 10473	47k 2% 0,25W
3142	4822 051 10102	1k 2% 0,25W
3143	4822 051 10683	68k 2% 0,25W
3144	4822 051 20222	2k2 5% 0,1W
3145	4822 051 10221	220Ω 2% 0,25W
3146	4822 051 10681	680Ω 2% 0,25W
3147	4822 051 10221	220Ω 2% 0,25W
3148▲	4822 051 10103	10k 2% 0,25W
3149	4822 051 10272	2k7 2% 0,25W
3150▲	4822 116 81193	15Ω 5% 0,3W
3151	4822 051 10101	100Ω 2% 0,25W
3152	4822 051 10181	180Ω 2% 0,25W
3154▲	4822 116 52256	2k2 5% 0,5W
3155	4822 051 20222	2k2 5% 0,1W
3156	4822 051 10473	47k 2% 0,25W
3157	4822 051 10473	47k 2% 0,25W
3158	4822 051 10101	100Ω 2% 0,25W
3159	4822 051 10569	56Ω 2% 0,25W
3160	4822 116 52291	56k 5% 0,5W
3161	4822 051 10101	100Ω 2% 0,25W
3165▲	4822 052 10279	27Ω 5% 0,33W
3168	4822 051 10513	51k 2% 0,25W
3178	4822 051 10132	1k3 2% 0,25W
3180	4822 051 10561	560Ω 2% 0,25W
3181	4822 051 10561	560Ω 2% 0,25W
3182	4822 051 10561	560Ω 2% 0,25W
3183	4822 051 10759	75Ω 2% 0,25W
3201	4822 051 10101	100Ω 2% 0,25W
3220	4822 116 52244	15k 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W

5001	4822 157 53001	27µH 10%
5002	4822 157 53001	27µH 10%
5004	4822 157 53066	15µH 10%
5007	4822 157 53066	15µH 10%
5011	4822 152 20677	10µH 10%
5012	4822 152 20677	10µH 10%
5025	4822 157 60147	2,2µH
5026	4822 157 60147	2,2µH
5034	4822 157 60147	2,2µH
5035	4822 157 60147	2,2µH
5036	4822 157 60147	2,2µH
5040	4822 157 60147	2,2µH
5041	4822 157 60147	2,2µH
5042	4822 157 60147	2,2µH
5047	4822 157 62552	2,2µH
5049	4822 157 60122	1,5µH 20%
5052	4822 157 60122	1,5µH 20%
5054	4822 157 60122	1,5µH 20%
5063	4822 157 60147	2,2µH
5066	4822 157 60147	2,2µH
5079	4822 152 20677	10µH 10%
5083	4822 157 60147	2,2µH
5146	4822 157 53001	27µH 10%
5152	4822 157 52224	15µH 10%
5169	4822 157 60147	2,2µH
5170	4822 157 60147	2,2µH
5177	4822 157 60147	2,2µH

6001	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6006	4822 130 82334	BAS85
6023	4822 130 82334	BAS85
6025	4822 130 80446	LL4148
6026	4822 130 83459	BZV55-A5V1
6080	4822 130 80882	BZV55-C3V9
6122	4822 130 80884	LLZ-C5V1
6127	4822 130 80446	LL4148

7010	4822 130 42131	BF550
7011	4822 130 42513	BC858C
7016▲	5322 130 41982	BC848B
7019▲	5322 130 41982	BC848B
7020	4822 130 42513	BC858C
7021▲	5322 130 41982	BC848B
7022	5322 130 42136	BC848C
7023	4822 130 40938	BC548
7025	5322 130 42136	BC848C
7030	5322 130 44743	BSR12
7032▲	5322 130 41982	BC848B
7034▲	5322 130 41982	BC848B
7035	5322 130 41983	BC858B
7036	5322 130 41983	BC858B
7037▲	5322 130 41982	BC848B
7077▲	5322 130 41982	BC848B
7080▲	5322 130 41982	BC848B
7122▲	5322 130 41982	BC848B
7125	5322 130 44743	BSR12
7127	5322 130 41983	BC858B
7142	5322 130 41983	BC858B
7143▲	5322 130 41982	BC848B
7148▲	5322 130 41982	BC848B
7200	4822 209 30402	TDA2579B/N2/S1
7201	4822 209 33044	PC74HC4538T/S24 5
7202	4822 209 33044	PC74HC4538T/S24 5
7203▲	4822 209 83163	LM833N
7231	4822 209 31056	SDA9205-2
7240	4822 209 52418	TMS4C1070B-30N
7241	4822 209 52418	TMS4C1070B-30N
7242	4822 209 52418	TMS4C1070B-30N

Spare parts list / Stükliste / Liste des pièces

7245	4822 209 32581	SAA4970T/V1
7250	4822 209 63645	SAA5231/V7
7260	4822 209 72042	MC78L05ACP
7262	5322 209 31799	PC74HC4538T
7265	4822 209 72042	MC78L05ACP
7266	4822 209 63644	SDA9086-3
7269	5322 209 61004	N74F74D
7271	4822 209 52359	HYB514256B-70
7275	4822 209 31851	SAA9042P/A/MOB
7283	4822 209 52422	Eprom + software

PIP panel [J]

	4822 265 31085	5P female
	4822 265 41328	10P female
	4822 265 20509	2P male grey
	4822 265 20511	2P male blue
	4822 265 30828	5P nale brown
	4822 267 41145	5P male
	4822 265 30899	5P male black

Various

1023	4822 212 30839	PIP multi 33"
1023	4822 212 30841	PIP multi 25-28"
1023	4822 212 31315	PIP multi FL2.24-32" -/58
1023	4822 212 31316	PIP multi FL2.24-32"
1023	4822 212 31317	PIP multi FL2.24-28"
1155	4822 320 40284	Delay line DL711G
1201	4822 242 70304	Crystal 8,867 238 MHz
1212	4822 242 70736	Crystal 7,159 090 MHz
1600	4822 210 10392	UV916E
1600	4822 210 50124	UV916E/IEC
1610	4822 242 80295	Crystal OFWG3962M

⊣⊢

2103	4822 126 10324	33pF 2% 63V
2105	4822 122 31766	120pF 2% 63V
2118	4822 122 31775	680pF 2% 63V
2119	4822 122 31767	150pF 2% 63V
2120	4822 122 31807	1200pF 2% 63V
2125	4822 126 11544	22nF 63V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 121 42408	220nF 5% 63V
2161	4822 121 41854	150nF 5% 63V
2162	4822 122 31947	100nF 20% 63V
2171	4822 122 31961	68pF 2% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 2% 63V
2180	4822 122 31768	180pF 2% 63V
2181	4822 122 31768	180pF 2% 63V
2185	4822 126 11544	22nF 63V
2187	4822 126 11544	22nF 63V
2189	4822 122 31746	1nF 2% 63V
2196	4822 122 32183	56nF 10% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1nF 2% 63V
2202	4822 125 50045	1p8-22p trim.
2211	4822 122 31746	1nF 2% 63V
2212	4822 125 50045	1p8-22p trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 2% 63V
2230	4822 124 40753	6,8µF 20% 63V
2232	5322 124 41431	22µF 20% 35V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 40753	6,8µF 20% 63V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 31947	100nF 20% 63V
2250	4822 121 41738	270nF 5% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2270	4822 122 31947	100nF 20% 63V
2340▲	4822 124 40433	47µF 20% 25V
2345▲	4822 124 40433	47µF 20% 25V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF 20% 50V
2381	4822 122 32927	220nF 20% 50V
2382	4822 122 32927	220nF 20% 50V
2383	4822 122 32927	220nF 20% 50V
2384	4822 122 32927	220nF 20% 50V
2385	4822 122 32927	220nF 20% 50V
2390	4822 122 31947	100nF 20% 63V
2399	4822 122 31746	1nF 2% 63V
2399	4822 122 31961	68pF 2% 63V
2404	4822 122 31965	220pF 2% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 2% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31769	18pF 2% 63V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 32765	820pF 2% 63V
2430	4822 122 31947	100nF 20% 63V
2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 41857	10nF 5% 250V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 2% 63V
2441	4822 122 31727	470pF 2% 63V
2442	4822 124 40242	1µF 20% 63V
2447	5322 121 42386	100nF 5% 63V
2448	4822 122 31947	100nF 20% 63V
2449	4822 122 31947	100nF 20% 63V
2450	4822 122 32856	8,2nF 10% 63V
2451	4822 122 31981	33nF 5% 50V
2452	4822 122 31765	100pF 2% 63V
2453	4822 122 31765	100pF 2% 63V
2455	4822 122 31972	39pF 2% 63V
2456	4822 122 31765	100pF 2% 63V
2459	4822 124 41997	470µF 10V
2466	4822 122 31947	100nF 20% 63V
2470▲	4822 124 40196	220µF 20% 16V
2604	4822 124 40195	150µF 20% 16V
2614▲	4822 124 40433	47µF 20% 25V
2615	4822 124 41576	2,2µF 20% 50V
2616	4822 122 32927	220nF 20% 50V
2618▲	4822 122 32442	10nF 50V
2619	4822 124 40849	330µF 20% 16V
2620▲	4822 122 32442	10nF 50V
2621	4822 122 31797	22nF 10% 63V
2622	4822 122 31947	100nF 20% 63V
2623	4822 122 31797	22nF 10% 63V
2627	4822 122 32927	220nF 20% 50V

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3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107▲	4822 051 10103	10k 2% 0,25W
3108▲	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% lin
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200▲	4822 051 10103	10k 2% 0,25W
3201▲	4822 051 10103	10k 2% 0,25W
3202▲	4822 051 10103	10k 2% 0,25W
3211▲	4822 051 10103	10k 2% 0,25W
3212▲	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228▲	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10112	1k1 2% 0,25W
3233	4822 051 10152	1k5 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10511	510Ω 2% 0,25W
3237	4822 051 10153	15k 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% lin
3241	4822 051 10302	3k 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270▲	4822 051 10103	10k 2% 0,25W
3275▲	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330▲	4822 051 10103	10k 2% 0,25W
3332	4822 051 10152	1k5 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336▲	4822 051 10472	4k7 2% 0,25W
3337	4822 116 52207	1k2 5% 0,5W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 116 52253	2k 5% 0,5W
3341▲	4822 111 41424	22Ω 5% 0,3W
3345▲	4822 111 41424	22Ω 5% 0,3W
3353▲	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10102	1k 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10271	270Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10391	390Ω 2% 0,25W
3414	4822 051 10101	100Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464▲	4822 051 10472	4k7 2% 0,25W
3467▲	4822 116 52256	2k2 5% 0,5W
3471▲	4822 051 10103	10k 2% 0,25W
3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3600▲	4822 051 10103	10k 2% 0,25W
3601▲	4822 051 10103	10k 2% 0,25W
3602	4822 051 10101	100Ω 2% 0,25W
3603	4822 051 10101	100Ω 2% 0,25W
3604▲	4822 052 10158	1Ω5 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k7 30% lin
3611	4822 051 10332	3k3 2% 0,25W
3612	4822 051 10272	2k7 2% 0,25W
3613▲	4822 051 10103	10k 2% 0,25W
3614	4822 051 10123	12k 2% 0,25W
3615	4822 051 10822	8k2 2% 0,25W
3616	4822 116 52229	750Ω 5% 0,5W
3617	4822 051 10751	750Ω 2% 0,25W
3618▲	4822 052 10568	5Ω6 5% 0,33W
3619	4822 051 10471	470Ω 2% 0,25W
3620	4822 051 20222	2k2 5% 0,1W
3621	4822 051 10105	1M 5% 0,25W
3622	4822 051 10272	2k7 2% 0,25W
3624	4822 051 10272	2k7 2% 0,25W
3625	4822 051 10511	510Ω 2% 0,25W
3630	4822 051 10101	100Ω 2% 0,25W
3631	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3634	4822 051 10104	100k 2% 0,25W
3635	4822 051 10562	5k6 2% 0,25W
3636	4822 051 10911	910Ω 2% 0,25W
3637	4822 051 20183	18k 5% 0,1W
3638	4822 051 10362	3k6 2% 0,25W
3997	4822 051 10101	100Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10479	47Ω 2% 0,25W
3997	4822 051 10829	82Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5118	4822 157 60435	10,3µH 4,86MHz trim
5155	4822 157 60433	7,2µH 4,4MHz trim
5157	4822 157 60434	9,4µH 4,4MHz trim
5170	4822 157 60432	10,3µH 4,4MHz trim
5175	4822 157 60432	10,3µH 4,4MHz trim
5190	4822 157 60432	10,3µH 4,4MHz trim
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5403	4822 157 52333	100µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

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6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80446	LL4148

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7103▲	5322 130 41982	BC848B
7105▲	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7200▲	5322 130 41982	BC848B
7210▲	5322 130 41982	BC848B
7233▲	5322 130 41982	BC848B
7234▲	5322 130 41982	BC848B
7235▲	5322 130 41982	BC848B
7330	4822 209 73852	PMBT2369
7335▲	5322 130 41982	BC848B
7337▲	5322 130 41982	BC848B
7338▲	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 62474	SDA9088-2WS
7410	4822 209 63644	SDA9086-3
7466	4822 209 73852	PMBT2369
7610	4822 209 32692	TDA8349A/N4
7630	4822 209 30395	SAA1300AQ/N6
7755	4822 209 63423	TDA2579B/N2

NICAM sound module [K]

	4822 265 41087	Strip 9P

Various

1600	4822 212 23907	ECO-NICAM PAL BG
1600	4822 212 23908	ECO-NICAM PAL I
1001	4822 242 81527	Crystal 17,472MHz
1002	4822 242 72301	Filter TH316BOM-20800 DAF
1002	4822 242 72303	Filter TH316BQM
1003	4822 242 81187	Crystal 11,700MHz
1003	4822 242 81188	Crystal 13,104MHz
1106	4822 242 72303	Filter TH316BQM

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2000	4822 122 31947	100nF 20% 63V
2001▲	4822 124 40433	47µF 20% 25V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31797	22nF 10% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31768	180pF 2% 63V
2006	5322 122 31842	330pF 2% 63V
2007	4822 122 32597	6,8nF 10% 63V
2008	4822 122 31767	150pF 2% 63V
2009▲	4822 122 32442	10nF 50V
2010	4822 122 31767	150pF 2% 63V
2011	4822 122 31766	120pF 2% 63V
2012	4822 121 41854	150nF 5% 63V
2013	4822 122 31746	1nF 2% 63V
2014▲	4822 122 32442	10nF 50V
2015	4822 125 50045	1p8-22p trim.
2016	4822 122 31961	68pF 2% 63V
2017	4822 121 42408	220nF 5% 63V
2018▲	4822 122 32442	10nF 50V
2019	4822 122 31797	22nF 10% 63V
2020▲	4822 124 40433	47µF 20% 25V
2021	4822 122 31782	15nF 10% 50V
2021	4822 122 32856	8,2nF 10% 63V
2022	4822 122 31981	33nF 5% 50V
2022	4822 122 31759	18nF
2023	4822 122 31981	33nF 5% 50V
2023	4822 122 31759	18nF
2024	4822 122 31782	15nF 10% 50V
2024	4822 122 32856	8,2nF 10% 63V
2025	4822 122 31797	22nF 10% 63V
2026▲	4822 124 40433	47µF 20% 25V
2027	4822 122 31773	560pF 2% 63V
2028	4822 126 10171	2700pF 2% 63V
2029	4822 122 32999	2,2nF 5% 50V
2030	4822 122 32999	2,2nF 5% 50V
2031	4822 126 10171	2700pF 2% 63V
2032	4822 122 31773	560pF 2% 63V
2033	4822 126 11492	220nF 10% 63V
2034	4822 126 11492	220nF 10% 63V
2035	4822 122 31746	1nF 2% 63V
2036▲	4822 122 32442	10nF 50V
2037▲	4822 122 32442	10nF 50V
2038	4822 122 31797	22nF 10% 63V

Spare parts list / Stükliste / Liste des pièces

2039	4822 126 11691	150nF 10% 63V
2041	5322 122 31647	1nF 10% 63V
2042	4822 126 10183	330pF 10% 63V
2043	5322 122 31647	1nF 10% 63V
2044	5322 122 31647	1nF 10% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051	5322 122 31647	1nF 10% 63V
2245	5322 122 31647	1nF 10% 63V
2246	5322 122 31647	1nF 10% 63V

3000	4822 051 10471	470Ω 2% 0,25W
3002	4822 051 10332	3k3 2% 0,25W
3003	4822 051 10332	3k3 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10823	82k 2% 0,25W
3007	4822 051 10223	22k 2% 0,25W
3008	4822 051 10223	22k 2% 0,25W
3009	4822 051 10392	3k9 2% 0,25W
3010	4822 051 10104	100k 2% 0,25W
3011	4822 051 10104	100k 2% 0,25W
3012	4822 053 20106	10M 5% 0,25W
3013	4822 051 10824	820k 2% 0,25W
3014▲	4822 051 10103	10k 2% 0,25W
3015	4822 051 10682	6k8 2% 0,25W
3015	4822 051 10123	12k 2% 0,25W
3016	4822 051 10122	1k2 2% 0,25W
3016	4822 051 20222	2k2 5% 0,1W
3017	4822 051 10122	1k2 2% 0,25W
3017	4822 051 20222	2k2 5% 0,1W
3018	4822 051 10682	6k8 2% 0,25W
3018	4822 051 10123	12k 2% 0,25W
3019	4822 051 10752	7k5 2% 0,25W
3019	4822 051 10562	5k6 2% 0,25W
3020▲	4822 051 10472	4k7 2% 0,25W
3021▲	4822 051 10472	4k7 2% 0,25W
3022▲	4822 051 10472	4k7 2% 0,25W
3023▲	4822 051 10472	4k7 2% 0,25W
3024	4822 051 10184	180k 2% 0,25W
3025	4822 051 10184	180k 2% 0,25W
3026	4822 051 10101	100Ω 2% 0,25W
3027	4822 051 10101	100Ω 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029▲	4822 052 10109	10Ω 5% 0,33W
3030	4822 051 10102	1k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10569	56Ω 2% 0,25W
3033	4822 051 20222	2k2 5% 0,1W
3034	4822 051 10431	430Ω 2% 0,25W
3035	4822 051 10241	240Ω 2% 0,25W
3036	4822 051 10102	1k 2% 0,25W
3037	4822 051 10159	15Ω 2% 0,25W
3049	4822 051 10223	22k 2% 0,25W
3050	4822 051 10123	12k 2% 0,25W
3099	4822 051 10101	100Ω 2% 0,25W
3099	4822 051 51201	120Ω 1% 0,125W
4xxx	4822 051 10008	0Ω 5% 0,25W

5000	4822 157 50975	1mH 10%
5001	4822 157 50975	1mH 10%
5002	4822 157 70458	4,7µH 10%
5003	4822 157 70458	4,7µH 10%

6000▲	4822 130 30621	1N4148
6005	4822 209 30911	OF4076
6006	5322 130 31684	BB809
6050	4822 130 80446	LL4148

7000	4822 209 30909	TDA8732/C1
7001▲	4822 209 30914	SAA7280/M3
7002▲	4822 209 83163	LM833N
7003▲	4822 209 83163	LM833N
7004	5322 209 10576	4053B
7007	4822 209 73236	TDA1543/N2
7008	5322 130 42755	BC847C
7009	4822 130 60887	BF840
7050	5322 130 42136	BC848C

Combfilter panel [N]

4822 265 41337	Strip 11P

Various

1300	4822 212 30906	Comb filter panel

2000	4822 122 33496	100nF 10% 63V
2001	4822 122 33496	100nF 10% 63V
2002	4822 124 40248	10µF 20% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 124 40248	10µF 20% 63V
2005	4822 124 40242	1µF 20% 63V
2006	4822 122 33496	100nF 10% 63V
2010▲	4822 122 32442	10nF 50V
2021▲	4822 122 32442	10nF 50V
2022▲	4822 122 32442	10nF 50V
2023	4822 122 31766	120pF 2% 63V
2024▲	4822 122 32442	10nF 50V
2025▲	4822 124 40246	4,7µF 20% 63V
2026	4822 122 33496	100nF 10% 63V
2030	4822 124 40177	47µF 20% 10V
2031	4822 122 33496	100nF 10% 63V
2032	4822 124 40177	47µF 20% 10V
2033	4822 122 33496	100nF 10% 63V
2034	4822 124 40177	47µF 20% 10V
2035	4822 122 33496	100nF 10% 63V
2036▲	4822 124 40433	47µF 20% 25V
2037	4822 122 33496	100nF 10% 63V
2038	5322 122 31647	1nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2044	4822 122 33496	100nF 10% 63V
2045	4822 122 33496	100nF 10% 63V
2050	4822 124 80283	100µF 6,3V
2051	4822 126 11725	1µF 205 5V
2060	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2080	4822 122 31797	22nF 10% 63V
2081	4822 124 80283	100µF 6,3V
2082	4822 122 33496	100nF 10% 63V
2083	4822 122 33496	100nF 10% 63V

3000▲	4822 051 10103	10k 2% 0,25W
3001	4822 051 10124	120k 2% 0,25W
3011	4822 051 10471	470Ω 2% 0,25W
3012	4822 051 10102	1k 2% 0,25W
3013	4822 051 10182	1k8 2% 0,25W
3014	4822 051 10151	150Ω 2% 0,25W
3021	4822 051 10122	1k2 2% 0,25W
3022	4822 051 10331	330Ω 2% 0,25W
3023	4822 051 10221	220Ω 2% 0,25W
3024	4822 051 10331	330Ω 2% 0,25W
3025	4822 051 10473	47k 2% 0,25W
3026	4822 051 10479	47Ω 2% 0,25W
3027	4822 051 10471	470Ω 2% 0,25W
3028	4822 051 10479	47Ω 2% 0,25W
3029	4822 051 10102	1k 2% 0,25W
3030	4822 051 10473	47k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10181	180Ω 2% 0,25W
3035▲	4822 052 10108	1Ω 5% 0,33W
3036▲	4822 052 10108	1Ω 5% 0,33W
3037▲	4822 052 10108	1Ω 5% 0,33W
3038▲	4822 052 10108	1Ω 5% 0,33W
3040	4822 051 10333	33k 2% 0,25W
3041	4822 051 10822	8k2 2% 0,25W
3042	4822 051 10331	330Ω 2% 0,25W
3043	4822 051 10102	1k 2% 0,25W
3044	4822 051 10471	470Ω 2% 0,25W
3045	4822 051 10008	0Ω 5% 0,25W
3047	4822 051 10102	1k 2% 0,25W
3048	4822 051 10101	100Ω 2% 0,25W
3050	4822 051 10333	33k 2% 0,25W
3051	4822 051 10822	8k2 2% 0,25W
3052	4822 051 10331	330Ω 2% 0,25W
3053	4822 051 10911	910Ω 2% 0,25W
3054	4822 051 10471	470Ω 2% 0,25W
3055	4822 051 10008	0Ω 5% 0,25W
3057	4822 051 10102	1k 2% 0,25W
3058	4822 051 10101	100Ω 2% 0,25W
3060	4822 051 10562	5k6 2% 0,25W
3061	4822 051 10331	330Ω 2% 0,25W
3062	4822 051 10821	820Ω 2% 0,25W
3078	4822 051 10151	150Ω 2% 0,25W
3079	4822 051 10821	820Ω 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 10102	1k 2% 0,25W
3083	4822 051 10473	47k 2% 0,25W
3084	4822 051 10393	39k 2% 0,25W
3085	4822 051 10471	470Ω 2% 0,25W
3086	4822 051 10152	1k5 2% 0,25W
3087	4822 051 10182	1k8 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3089	4822 051 10151	150Ω 2% 0,25W
3090	4822 051 10471	470Ω 2% 0,25W
3091	4822 051 10102	1k 2% 0,25W
3092	4822 051 10223	22k 2% 0,25W
3093	4822 051 20222	2k2 5% 0,1W
3094	4822 051 10333	33k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

5021▲	4822 157 51462	10µH 10%
5022	4822 157 63065	0,68µH 20%
5030	4822 157 51312	68µH 10%
5031	4822 157 51312	68µH 10%
5032	4822 157 51312	68µH 10%
5033	4822 157 51312	68µH 10%
5080	4822 154 10057	7,2MHz LOW-PASS

6050▲	4822 130 30621	1N4148
6051	4822 130 31253	BZX79-C2V4

7000	4822 212 30906	MC141625A
7005	5322 209 10576	4053B
7010	5322 130 42136	BC848C
7021▲	5322 130 41982	BC848B
7022▲	5322 130 41982	BC848B
7023	5322 130 41983	BC858B
7024	5322 130 41983	BC858B
7040	5322 130 42136	BC848C
7041	4822 130 42513	BC858C
7042	5322 130 42136	BC848C
7050	5322 130 42136	BC848C
7051	4822 130 42513	BC858C
7052	5322 130 42136	BC848C
7062	5322 130 42136	BC848C
7080	5322 130 42136	BC848C
7081▲	5322 130 41982	BC848B
7082	5322 130 41983	BC858B
7083	4822 130 42513	BC858C
7090	5322 130 41983	BC858B
7091▲	5322 130 41982	BC848B
7092▲	5322 130 41982	BC848B

Black-stretch panel [D']

4822 265 41376	Strip 13P

Various

1200	4822 212 31276	Black-stretch panel

2514	4822 124 40195	150µF 20% 16V
2515	4822 124 40272	33µF 20% 16V
2516	4822 124 40849	330µF 20% 16V
2517	4822 124 40242	1µF 20% 63V
2518	4822 126 11544	22nF 63V
2519	4822 121 42408	220nF 5% 63V
2521	4822 124 40248	10µF 20% 63V
2524	4822 126 11544	22nF 63V

3511	4822 051 10102	1k 2% 0,25W
3512▲	4822 052 10688	6Ω8 5% 0,33W
3513	4822 051 10511	510Ω 2% 0,25W
3514	4822 051 10152	1k5 2% 0,25W
3515	4822 051 10202	2k 2% 0,25W
3516	4822 051 10102	1k 2% 0,25W
3517	4822 051 10102	1k 2% 0,25W
3518	4822 051 10202	2k 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10394	390k 2% 0,25W
3524	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10122	1k2 2% 0,25W
3532	4822 051 10911	910Ω 2% 0,25W
3533	4822 051 10681	680Ω 2% 0,25W
3550	4822 051 10101	100Ω 2% 0,25W
3552	4822 051 10008	0Ω 5% 0,25W

6500	4822 130 81513	LLZ-C6V8
6501	4822 130 81223	LLZ-C2V4

7518	4822 209 30711	CX20125
7519▲	4822 130 41344	BC337-40
7520▲	5322 130 41982	BC848B
7521	5322 130 41983	BC858B
7522▲	5322 130 41982	BC848B
7524	4822 209 63901	TDA4568/V2

Y/C detector [I]

4822 265 40503	5P female gold plated
4822 265 30431	3P female gold plated

Various

1021	4822 212 23929	Y/C detector panel
1231	4822 242 80364	Filter 4,43 MHz

2225▲	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF 20% 50V
2228	4822 122 32927	220nF 20% 50V
2235	4822 122 31965	220pF 2% 63V
2236	4822 122 31772	47pF 2% 63V
2237	4822 122 32142	270pF 2% 63V
2238	4822 122 31768	180pF 2% 63V
2239	4822 122 31947	100nF 20% 63V
2244	4822 124 20722	1µF 10% 63V
2246	4822 122 31947	100nF 20% 63V
2247	4822 122 31766	120pF 2% 63V
2261	4822 124 20678	47µF 10% 10V
2262	4822 122 31767	150pF 2% 63V
2269	4822 124 20726	4,7µF 10% 63V

3200	4822 050 11002	1k 1% 0,4W
3201	4822 116 83006	2M7 5% 0,5W
3203	4822 051 10563	56k 2% 0,25W
3204▲	4822 051 10103	10k 2% 0,25W
3212	4822 051 10751	750Ω 2% 0,25W
3213	4822 051 10153	15k 2% 0,25W
3214	4822 051 10153	15k 2% 0,25W
3221▲	4822 051 10472	4k7 2% 0,25W
3223	4822 116 52203	91Ω 5% 0,5W
3225▲	4822 116 52219	330Ω 5% 0,5W
3226	4822 116 52243	1k5 5% 0,5W
3227	4822 051 10112	1k1 2% 0,25W
3228	4822 051 10474	470k 2% 0,25W
3229	4822 051 10331	330Ω 2% 0,25W
3230	4822 051 10102	1k 2% 0,25W
3231	4822 051 10681	680Ω 2% 0,25W
3236	4822 051 10331	330Ω 2% 0,25W
3250	4822 051 10151	150Ω 2% 0,25W
3258	4822 051 10102	1k 2% 0,25W
3272	4822 051 10471	470Ω 2% 0,25W
3278▲	4822 051 10472	4k7 2% 0,25W
3280	4822 051 10102	1k 2% 0,25W
3282▲	4822 051 10103	10k 2% 0,25W
3283▲	4822 051 10472	4k7 2% 0,25W
3284	4822 051 10102	1k 2% 0,25W
3289	4822 051 10102	1k 2% 0,25W
3302	4822 051 10102	1k 2% 0,25W
3307	4822 051 10474	470k 2% 0,25W
3308	4822 051 10471	470Ω 2% 0,25W
3309	4822 051 10008	0Ω 5% 0,25W
3319	4822 051 10102	1k 2% 0,25W
3991	4822 051 10399	39Ω 2% 0,25W

5200	4822 157 62824	7,5µH
5201	4822 157 62824	7,5µH
5202	4822 157 60122	4,7µH 10%

6258	4822 130 80905	LLZ-F5V1

7226	5322 130 41983	BC858B
7228▲	5322 130 41982	BC848B
7262	5322 130 41983	BC858B
7263▲	5322 130 41982	BC848B
7264	4822 130 42353	BFS19
7266	5322 130 42136	BC848C
7267	4822 130 42513	BC858C
7274	5322 130 42136	BC848C
7275	4822 130 42513	BC858C
7276	5322 130 41983	BC858B
7277▲	5322 130 41982	BC848B
7278▲	5322 130 41982	BC848B